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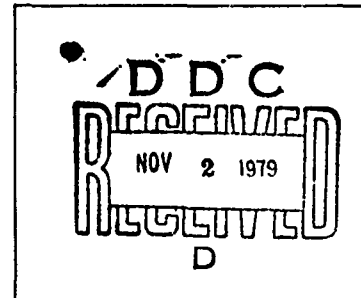
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**A076088**

USAFETAC/DS-79/077

**DATA PROCESSING DIVISION  
ETAC, USAF  
Air Weather Service (MAC)**

**REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS**

**SMYRNA, TENNESSEE/SEWART AFB      WBAN # 13827  
N 36 00 W 086 32 ELEV 535 FT KSYM WMO #**

**PARTS A-F  
POR FROM HOURLY OBS    AUG 42-JAN 46, SEP 46-JUN 47,  
                                  JAN 49-DEC 66  
POR FROM DAILY OBS    OCT 42-JAN 46, SEP 46-JUN 47,  
                                  JAN 49-JUN 65**

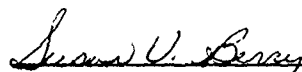
**FEDERAL BUILDING  
ASHEVILLE, N. C.**

**79 0 26 102**

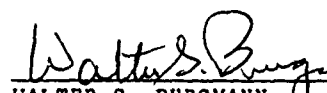
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This technical report has been reviewed and is approved for publication.

  
SUSAN V. BERRY, 2 Lt, USAF  
Information Retrieval  
Manager

FOR THE COMMANDER

  
WALTER S. BURGMANN  
Scientific & Technical  
Information Officer

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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USAFETAC/DS- 79/077		
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Revised Uniform Summary of Surface Weather Observations (RUSSWO)- Sewart AFB, Smyrna, Tennessee		Final rept.
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17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18 SUPPLEMENTARY NOTES		
19 KEY WORDS (Continue on reverse side if necessary and identify by block number)		
*RUSSWO	Daily temperature	Atmospheric pressure
Snowfall	Extreme snow depth	Extreme surface winds
Climatology	Sea-level pressure	Psychrometric summary
Surface Winds	Extreme temperature	Ceiling versus visibility
Relative humidity	*Climatological data	(over)
20 ABSTRACT (Continue on reverse side if necessary and identify by block number)		
This report is a six-part statistical summary of surface weather observations for Sewart AFB, Smyrna, Tennessee		
It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling Versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over))		

DD FORM 1 JAN 73 1473

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19. Percentqge frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables

\* Tennessee

\* Sewart AFB, Tn

20. and dew-point temperatures and relative humidity); and (F) Pressure  
Summary (means, standard, deviations, and observation counts of  
station pressure and sea-level pressure). Data in this report are  
presented in tabular form, in most cases in percentage frequency of  
occurrence or cumulative percentage frequency of occurrence tables.

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REVISED  
UNIFORM SUMMARY  
OF  
SURFACE WEATHER OBSERVATIONS

STA NO.	STATION NAME	LATITUDE	LONGITUDE	BAR. ELEV FT.	CALL SIGN	WMO NO.
13827	SMYRNA TENNESSEE/SEWART AFB	N 36 00	W 086 32	535	KSYM	

PERIOD OF RECORD

FOR HOURLY OBSERVATIONS	AUG 42-JAN 46, SEP 46-JUN 47, JAN 49-DEC 66
FOR DAILY OBSERVATIONS	OCT 42-JAN 46, SEP 46-JUN 47, JAN 49-JUN 65

SUMMARIES

PART A WEATHER CONDITIONS  
ATMOSPHERIC PHENOMENA

PART B PRECIPITATION  
SNOWFALL  
SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY  
SKYCOVER

PART E DAILY MAX, MIN, AND MEAN TEMPERATURES  
EXTREME MAX AND MIN TEMPERATURES  
PSYCHROMETRIC- DRY VS WET BULB  
MEANS & STD DEV- DRY BULB, WET BULB, AND DEW POINT  
RELATIVE HUMIDITY

PART F STATION PRESSURE  
SEA LEVEL PRESSURE

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

# Revised UNIFORM SUMMARY of SURFACE WEATHER OBSERVATIONS

## DESCRIPTION OF SUMMARIES:

Preceding each section is a brief description of the data comprising each part of the revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

HOURLY OBSERVATIONS are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

STANDARD 3-HOUR GROUPS All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_  
FEBRUARY \_\_\_\_\_  
MARCH \_\_\_\_\_

APRIL \_\_\_\_\_  
MAY \_\_\_\_\_  
JUNE \_\_\_\_\_

JULY \_\_\_\_\_  
AUGUST \_\_\_\_\_  
SEPTEMBER \_\_\_\_\_

OCTOBER \_\_\_\_\_  
NOVEMBER \_\_\_\_\_  
DECEMBER \_\_\_\_\_

DATA PROCESSING DIVISION  
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ASHEVILLE, NORTH CAROLINA

A

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

42-47,49-66

ALL

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	.3	13.5	.6	3.3		17.1	17.0	17.7	.1	.0	31.0	17059
FEB		.5	12.8	.0	2.7		15.2	12.5	16.0	.1	.2	26.7	14898
MAR		.9	11.1	.0	2.3		13.3	8.8	10.0	.0	.3	17.7	16366
APR		1.4	9.6		.1	.0	9.6	5.4	5.0		.1	9.7	15840
MAY		1.7	6.9				6.9	6.2	4.8		.1	9.8	16363
JUN		2.0	5.3				5.3	5.5	6.6		.0	10.7	15689
JUL		2.2	4.2				4.2	6.0	8.4			12.4	15619
AUG		1.7	4.1				4.1	8.2	7.9		.0	14.3	16004
SEP		.7	5.9				5.9	9.9	7.8			15.4	16555
OCT		.3	5.8		.0		5.8	8.4	10.2		.0	16.8	17107
NOV		.3	8.7	.0	.9		9.6	9.8	14.3	.1		22.1	16559
DEC		.2	11.9	.1	2.7	.0	14.5	14.2	17.7	.0	.0	28.4	17102
TOTALS		1.0	8.3	.1	1.0	.0	9.3	9.4	10.6	.0	.1	18.0	195161

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

43-47,49-66

JAN

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02	.5	14.5	.5	3.1		17.5	18.6	16.1	.1		29.8	2133
	03-05	.3	13.2	1.2	3.7		17.3	19.9	17.2	.1		32.0	2133
	06-08	.5	15.0	.8	4.1		19.5	21.9	22.5	.0	.0	38.5	2132
	09-11	.1	13.3	.5	3.9		17.6	18.1	20.5	.1	.1	35.1	2132
	12-14	.3	13.3	.4	3.0		16.6	13.1	15.9	.1	.1	26.8	2132
	15-17	.3	12.7	.2	2.9		15.4	13.0	16.2	.1		27.1	2133
	18-20	.2	12.7	.7	3.0		16.0	14.9	16.7	.1		29.0	2132
	21-23	.4	13.5	.1	3.0		16.5	16.6	16.9			30.0	2132
TOTALS		.3	13.5	.6	3.3		17.1	17.0	17.7	.1	.0	31.0	17059

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ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

43-45,47,49-66

FEB

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02	1.0	14.4		2.7		16.8	13.1	16.3	.1	.2	27.9	1863
	03-05	.4	14.8	.1	4.1		18.5	16.0	17.5		.2	30.8	1863
	06-08	.2	13.0	.1	4.1		16.9	20.6	22.6	.3	.2	39.1	1861
	09-11	.2	11.6	.1	2.9		14.3	13.0	17.6	.2	.1	28.2	1863
	12-14	.4	11.0		2.2		13.2	8.4	12.6		.2	20.3	1862
	15-17	.3	11.7		1.8		13.3	8.7	11.9		.1	20.1	1862
	18-20	.8	12.2		1.3		13.5	9.7	13.8	.1	.2	22.5	1863
	21-23	.6	13.3	.1	2.1		15.3	10.4	16.2		.1	25.0	1861
TOTALS		.5	12.8	.0	2.7		15.2	12.5	16.0	.1	.2	26.7	14898



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## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

43-45,47,49-66

MAR

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR ICE	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00-02	1.3	11.0		2.9		13.8	8.9	10.3		.1	17.7	2046
	03-05	.9	12.7		2.7		15.3	12.2	12.7			22.5	2046
	06-08	.7	10.3	.0	3.3		13.3	14.8	16.5		.2	28.3	2046
	09-11	.5	9.2	.2	2.7		11.8	8.4	10.6	.0	.6	18.7	2046
	12-14	.7	10.2	.0	1.8		11.9	5.8	6.9		.6	12.8	2046
	15-17	1.0	11.9		1.5		13.4	6.0	6.3		.2	11.9	2045
	18-20	.8	12.0		1.6		13.5	6.9	7.6		.5	14.3	2045
	21-23	1.3	11.4		2.2		13.5	7.2	9.0		.3	15.7	2046
TOTALS		.9	11.1	.0	2.3		13.3	8.8	10.0	.0	.3	17.7	16366

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

43-45,47,49-66

APR

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &, OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02	1.8	10.3				10.3	6.5	6.1			11.3	1980
	03-05	2.0	11.0				11.0	10.4	7.9		.1	16.3	1980
	06-08	1.3	11.5		.1		11.5	9.6	8.9		.3	16.7	1980
	09-11	.6	8.1				8.1	4.2	3.4		.3	7.5	1980
	12-14	1.2	8.3		.1	.1	8.3	3.1	2.7		.3	6.0	1980
	15-17	1.2	8.2		.2		8.3	2.8	3.0		.1	5.7	1980
	18-20	1.6	8.9		.1		9.0	2.8	3.7			6.2	1980
	21-23	1.8	10.5		.1		10.6	4.2	4.4			8.0	1980
TOTALS		1.4	9.6		.1	.0	9.6	5.4	5.0		.1	9.7	15840

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

43-45,47,49-66

MAY

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02	2.3	6.7				6.7	8.2	5.9		.0	12.3	2046
	03-05	1.7	7.7				7.7	18.0	8.4			22.4	2045
	06-08	1.2	7.8				7.8	11.0	8.1			16.8	2045
	09-11	1.2	6.1				6.1	3.3	3.5			6.2	2046
	12-14	1.5	7.0				7.0	2.1	2.2			3.7	2045
	15-17	2.0	6.4				6.4	1.5	2.5		.1	3.9	2046
	18-20	2.3	6.9				6.9	2.6	4.1		.1	6.5	2046
	21-23	1.8	6.9				6.9	3.0	3.9		.1	6.7	2044
TOTALS		1.7	6.9				6.9	6.2	4.8		.1	9.8	16363

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02	1.4	4.7				4.7	6.8	7.8			12.7	1962
	03-05	1.7	5.2				5.2	19.4	11.8			25.5	1962
	06-08	1.0	4.8				4.8	10.1	10.0			17.8	1962
	09-11	.7	4.4				4.4	1.8	4.3			5.8	1962
	12-14	3.0	5.9				5.9	.8	3.8			4.5	1962
	15-17	3.6	6.3				6.3	1.1	3.3		.1	4.3	1962
	18-20	3.0	6.4				6.4	1.6	5.2		.1	6.5	1959
	21-23	1.8	4.4				4.4	2.5	6.3			8.2	1958
TOTALS		2.0	5.3				5.3	5.5	6.6		.0	10.7	15689

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

43-45, 49-66

JUL

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02	1.2	3.0				3.0	8.1	10.0			14.6	1953
	03-05	.8	3.1				3.1	22.0	12.8			28.0	1953
	06-08	.9	3.7				3.7	12.1	13.9			22.0	1951
	09-11	1.4	4.0				4.0	1.1	8.2			9.1	1951
	12-14	4.4	5.7				5.7	.5	4.9			5.2	1953
	15-17	4.5	5.9				5.9	.6	4.4			4.9	1952
	18-20	2.9	4.6				4.6	.9	5.6			6.5	1953
	21-23	1.6	3.5				3.5	2.4	7.5			9.0	1953
TOTALS		2.2	4.2				4.2	6.0	8.4			12.4	15619

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

42-45,49-66

AUG

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02	.9	2.8				2.8	10.7	8.7			16.7	2001
	03-05	.9	3.4				3.4	26.0	12.9			33.4	1999
	06-08	.9	4.0				4.0	19.5	16.1			30.8	2001
	09-11	.7	4.4				4.4	2.9	7.1			9.7	2001
	12-14	2.4	4.7				4.7	1.0	4.2			5.0	1999
	15-17	4.3	5.6				5.6	.6	3.5			4.1	2001
	18-20	2.0	4.5				4.5	1.1	4.5		.1	5.3	2001
	21-23	1.2	3.3				3.3	3.5	6.4		.1	9.0	2001
TOTALS		1.7	4.1				4.1	8.2	7.9		.0	14.3	16004

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

42-46, 49-66

SEP

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02	.7	4.8				4.8	13.7	10.0			19.4	2070
	03-05	.5	6.4				6.4	23.8	11.5			30.0	2070
	06-08	.2	7.0				7.0	21.5	13.0			29.8	2069
	09-11	.4	6.2				6.2	5.1	5.8			10.5	2070
	12-14	1.1	6.6				6.8	2.7	3.5			6.1	2069
	15-17	1.4	6.2				6.2	2.3	3.9			6.0	2070
	18-20	.7	5.1				5.1	3.2	6.2			8.8	2070
	21-23	.6	4.9				4.9	6.5	8.1			12.9	2067
TOTALS		.7	5.9				5.9	9.9	7.8			15.4	16555

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## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

42-46,49-66

OCT

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02	.3	5.3				5.3	10.3	11.6			19.3	2136
	03-05	.3	6.3				6.3	18.7	14.2			28.3	2139
	06-08	.1	6.0				6.0	19.1	19.6			33.1	2139
	09-11	.1	6.3				6.3	5.4	10.6			15.3	2139
	12-14	.3	6.1		.0		6.1	2.4	5.2			7.4	2138
	15-17	.3	5.9				5.9	3.0	4.8		.0	7.6	2139
	18-20	.4	6.0				6.0	3.0	7.2		.1	9.9	2139
	21-23	.1	4.9				4.9	5.2	8.9			13.4	2138
TOTALS		.3	5.8		.0		5.8	8.4	10.2		.0	16.8	17107



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## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

42-46,49-66

NOV

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02	.1	8.9		.7		9.5	10.2	15.2			23.1	2069
	03-05	.8	10.8		.9		11.6	14.2	17.7			29.1	2070
	06-08	.3	9.5	.1	.9		10.5	19.8	23.7			37.0	2076
	09-11	.1	8.0		1.3		9.3	9.9	15.1	.1		23.3	2070
	12-14	.2	8.6		1.4		9.9	6.3	9.7	.1		14.8	2070
	15-17	.3	7.6		.9		8.3	5.8	9.3	.1		14.3	2070
	18-20	.2	7.8		.8		8.5	5.5	11.0	.1		16.1	2070
	21-23	.2	8.4		.6		8.9	7.0	12.9	.1		19.0	2070
TOTALS		.3	8.7	.0	.9		9.6	9.8	14.3	.1		22.1	16559

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

13827

SMYRNA TENNESSEE/SEWART AFB

42-46,49-66

DEC

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02	.3	11.1	.1	2.8	.0	13.9	13.5	17.6			27.4	2138
	03-05	.2	12.9	.2	2.5		15.5	16.0	18.8	.0		30.9	2139
	06-08	.0	12.5	.1	2.9		15.3	18.8	25.3	.0		39.4	2139
	09-11	.2	11.3		2.9		14.1	15.3	20.3			31.5	2138
	12-14		10.7	.0	2.2		12.8	11.1	13.4		.1	21.8	2132
	15-17	.2	12.1	.1	2.5		14.5	11.5	13.0		.1	22.5	2139
	18-20	.3	12.3	.2	2.8		15.2	12.9	15.3	.1		25.4	2139
	21-23	.1	12.1	.2	2.9		15.1	14.3	17.6	.1		28.6	2138
TOTALS		.2	11.9	.1	2.7	.0	14.5	14.2	17.7	.0	.0	28.4	17102

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

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## WEATHER CONDITIONS

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SMYRNA TENNESSEE/SEWART AFB

46-47,49-65

ALL

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	5.6	46.9	3.1	16.5	.7	55.2	44.8	40.0	.9	.3	61.8	587
FEB		6.7	47.3	.6	14.8	.4	52.8	44.5	41.9	1.4	.2	61.2	508
MAR		13.1	46.5	.5	11.3	.5	51.6	36.0	37.5	.2		53.9	558
APR		16.9	51.8		1.1	1.3	51.9	26.1	18.3			33.1	540
MAY		22.2	41.7			1.1	42.1	30.6	21.3			37.5	558
JUN		27.4	44.1			.2	43.7	33.8	21.8		.2	41.1	533
JUL		33.3	46.0			.2	46.2	34.3	26.8			42.3	496
AUG		23.0	37.5				37.5	45.4	35.9			53.6	496
SEP		10.2	31.7				29.8	40.2	28.8			47.8	510
OCT		4.6	31.3		.4	.2	29.6	38.5	30.9			49.9	527
NOV		4.1	40.0	.2	6.7	.2	42.4	35.9	36.5			52.0	510
DEC		3.8	43.5	1.3	12.7	.2	49.9	37.6	39.3	.6		58.1	527
TOTALS		14.1	42.4	.5	5.4	.4	44.5	37.2	31.6	.3	.1	49.4	6350

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART B      PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,  
~~but has been removed from this summary.~~

DATA PROCESSING DIVISION  
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## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

13827

SMYRNA TENNESSEE/SEWART AFB

42-47, 49-65

STATION

STATION NAME

YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	47.2	16.8	3.1	6.6	3.1	7.1	5.9	5.4	4.2	.5				36.0	589	4.79	16.59	1.22
FEB	45.0	15.0	2.1	7.1	5.1	6.4	6.9	8.7	3.2	.5				40.0	565	4.78	10.85	.99
MAR	47.5	13.2	3.2	6.5	4.3	6.0	7.8	7.2	3.8	.5				39.3	651	5.10	9.48	1.54
APR	48.3	17.3	2.7	5.0	4.3	6.3	6.3	5.5	4.2					34.3	600	4.16	8.84	1.10
MAY	57.0	11.8	2.2	4.3	3.4	7.2	5.5	5.8	2.8					31.2	651	3.73	6.52	1.37
JUN	57.2	12.2	1.3	6.7	2.2	5.8	5.8	6.0	2.3	.5				30.7	600	4.08	11.01	.81
JUL	55.2	14.6	1.7	4.4	3.7	6.3	7.1	4.4	2.5					30.2	589	3.35	7.61	.94
AUG	61.8	15.4	1.9	3.9	1.2	3.6	4.4	5.1	2.4	.3				22.7	589	3.51	8.81	1.07
SEP	67.7	10.2	1.8	3.2	1.6	5.1	3.3	3.5	3.3	.4				22.1	570	3.36	7.32	.11
OCT	69.3	10.9	1.0	2.9	3.7	4.4	3.2	2.9	1.7					19.9	589	2.08	5.57	.00
NOV	58.0	12.3	2.3	5.0	2.5	6.0	6.7	4.7	2.3	.2				29.7	600	3.22	9.02	.41
DEC	49.2	16.4	1.7	7.1	3.7	6.0	5.8	6.1	3.8	.2				34.4	651	4.64	11.45	1.34
ANNUAL	55.1	13.9	2.1	5.2	3.2	5.9	5.8	5.5	3.1	.2				31.0	7244	46.81		

DATA PROCESSING DIVISION  
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# EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

13827 SMYRNA TENNESSEE/SEWART AFB 42-47,49-65

STATION

STATION NAME

YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42											1.00	1.22	
43	1.03	.60	1.57	.68	1.55	1.00	1.35	.79	1.34	.43	.68	2.02	2.02
44	1.52	3.89	2.05		2.24	.96	1.04	4.45	3.14	.55	1.16	2.32	
45	.89	2.18	.59	1.83	1.26	1.97	.77	1.68	1.68	.63	2.52	.79	2.52
46												.80	
47	1.44	.37	.79	.75	1.14								
49			1.25	.96	1.73	2.44	2.11	.69	1.56	1.93	.23	2.17	
50	2.40	2.11	1.08	.51	1.45	2.71	2.11	1.31	2.12	.53	1.42	.99	2.71
51		.80	1.01	1.42	.50	1.24	.90	.59	1.30	2.17	1.49	3.17	
52	1.34	.89	2.58	.81	.57	.31	.40	.56	.98	.87	.91	.76	2.58
53	1.36	1.61	.82	1.75	1.04	1.17	.86	1.00	.68	.12	.29	.84	1.75
54	3.08	1.93	1.34	1.59	1.00	.90	.38	.81	1.48	.93	.39	2.40	3.08
55	1.00	1.86	3.45	1.08	1.09	.62	1.29	2.45	1.50	.52	.77	1.58	3.45
56	3.55	2.71	.89	1.95	.52	.43	.54	1.81	.07	1.15	.95	2.49	3.55
57	2.43	.96	.58	1.30	1.28	1.41	.37	1.56	2.47	1.36	1.98	.97	2.47
58	1.36	.66	.87	1.29	.75	.87	1.48	1.54	3.24	.80	1.08	.99	3.24
59	.72	.80	1.00	.74	1.30	.87	1.46	.72	1.54	.82	1.41	1.34	1.54
60	.82	1.33	1.74	.42	.60	4.22	.51	1.13	1.90	1.22	.81	1.29	4.22
61	.57	.99	1.18	1.51	1.67	1.67	.90	1.54	.26	.27	.69	2.17	2.17
62	3.02	3.22	1.06	2.06	.62	1.97	1.07	.92	1.57	1.69	1.85	.57	3.22
63	.38	.69	3.80	1.72	.71	.90	1.31	4.26	1.02	.00	.82	.97	3.26
64	1.03	.66	1.91	1.89	2.39	.30	1.15	1.49	2.08	1.07	1.05	1.73	2.39
65	1.22	1.32	2.26	1.47	.72	.70							
2-HR MAX	3.6	3.9	3.8	2.1	2.4	4.2	2.1	4.5	3.2	2.2	2.5	3.2	4.5
MEAN	1.53	1.48	1.52	1.29	1.15	1.33	1.05	1.54	1.58	.90	1.07	1.48	2.82
S D	.915	.957	.890	.512	.545	.955	.520	1.107	.826	.589	.578	.752	.803
TOTAL OBS.	589	565	651	600	651	600	589	589	570	589	600	651	7244

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

13827

SMYRNA TENNESSEE/SEWART AFB

46-47,49-65

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.30	.31-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	83.9	11.6	1.9	.8	.8	.4	.4	.2	.2					4.6	527	2.4	8.0	.0
FEB	85.6	8.7	1.0	2.0	1.4	.4	.6		.4					5.7	508	3.0	17.6	.0
MAR	89.1	7.0	1.3	1.6	.2	.4	.4	.2						3.9	558	1.6	12.6	.0
APR	98.7	1.3													540	TRACE	TRACE	.0
MAY	99.3	.7													558	TRACE	TRACE	.0
JUN	100.0														510	.0	.0	.0
JUL	99.8	.2													496	TRACE	TRACE	.0
AUG	100.0														496	.0	.0	.0
SEP	100.0														510	.0	.0	.0
OCT	99.4	.6													527	TRACE	TRACE	.0
NOV	93.7	5.1	.2	.8		.2								1.2	510	.4	4.0	.0
DEC	88.0	8.2	2.3	.6	.4	.2		.4						3.8	527	1.3	9.2	.0
ANNUAL	94.7	3.6	.6	.5	.2	.1	.1	.1	.0					1.6	6267	8.6		



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# EXTREME VALUES

SNOWFALL  
(FROM DAILY OBSERVATIONS)

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

46-47,49-65  
YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46									.0	.0	.0	.0	
47	TRACE	3.8	.7	.0	.0								
49	3.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	3.0
50	.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	3.0	1.1	3.0
51	1.8	2.6	3.2	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	.2	3.2
52	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	1.1	TRACE	1.1
53	TRACE	TRACE	.0	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	TRACE
54	TRACE	TRACE	TRACE	.0	.0	.0	TRACE	.0	.0	TRACE	.5	.1	.5
55	3.7	2.8	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	3.7
56	4.5	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	4.5
57	TRACE	.0	3.8	.0	.0	.0	.0	.0	.0	.0	1.2	.3	3.8
58	.2	1.8	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	1.8
59	.3	.7	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	.7
60	7.6	9.1	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	9.1
61	2.0	1.6	.8	.0	.0	.0	.0	.0	.0	.0	TRACE	.7	2.0
62	2.5	.6	.9	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	4.9	4.9
63	2.3	4.1	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	4.6	4.6
64		4.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	
65	4.0	2.0	1.6	.0	.0	.0							
14HR NO. X	7.6	9.1	6.0	#	#	0	0	0	0	H	1.0	4.9	9.1
MEAN	1.88	1.84	.91	TRACE	TRACE	.00	TRACE	.00	.00	TRACE	.34	.72	3.06
S. D.	2.176	2.357	1.692	.000	.000	.000	.000	.000	.000	.000	.787	1.548	2.289
TOTAL OBS.	527	508	558	540	558	510	496	496	510	527	510	527	6267

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWDEPTH  
(FROM DAILY OBSERVATIONS)

13827

STATION

SMYRNA TENNESSEE/SEWART AFB

STATION NAME

42-47,49-65

YEARS

	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4						
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	88.9	6.1	2.2	1.1	.6	.9	.2							4.9	651				
FEB	87.2	3.9	4.2	1.7	1.5	1.3	.2							8.9	593				
MAR	95.5	2.3	.9	.8	.2	.3								2.2	651				
APR	100.0														630				
MAY	100.0														651				
JUN	100.0														600				
JUL	100.0														589				
AUG	100.0														589				
SEP	100.0														600				
OCT	100.0														651				
NOV	97.6	1.4	.3	.3	.2	.2								1.0	630				
DEC	90.9	5.7	1.1	.6	.5	.9	.3							3.4	651				
ANNUAL	96.6	1.7	.7	.4	.2	.3	.1							1.7	7486				

## EXTREME VALUES

<u>13827</u>	<u>SMYRNA TENNESSEE/SEWART AFB</u>	<u>42-47,49-65</u>
STATION	STATION NAME	

DAILY SNOWDEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42										0	0	4	
43	TRACE	TRACE	TRACE	0	0	0	0	0	0	0	0	0	TRACE
44	TRACE	TRACE	0	0	0	0	0	0	0	0	0	0	7
45	1	TRACE	0	0	0	0	0	0	0	0	0	0	2
46									0	0	0	0	
47	0	4	1	0	0								
49	2	1	0	0	0	0	0	0	0	0	0	0	2
50	0	0	0	0	0	0	0	0	0	0	4	2	4
51	1	6	6	0	0	0	0	0	0	0	TRACE	TRACE	6
52	TRACE	0	0	0	0	0	0	0	0	0	1	TRACE	1
53	0	0	0	0	0	0	0	0	0	0	0	TRACE	TRACE
54	0	0	0	0	0	0	0	0	0	0	TRACE	TRACE	TRACE
55	5	3	0	0	0	0	0	0	0	0	0	0	5
56	3	0	0	0	0	0	0	0	0	0	0	0	3
57	0	0	TRACE	0	0	0	0	0	0	0	TRACE	TRACE	TRACE
58	TRACE	1	0	0	0	0	0	0	0	0	0	0	1
59	TRACE	1	0	0	0	0	0	0	0	0	TRACE	TRACE	1
60	7	9	5	0	0	0	0	0	0	0	0	TRACE	9
61	2	TRACE	TRACE	0	0	0	0	0	0	0	0	TRACE	2
62	3	1	TRACE	0	0	0	0	0	0	0	0	4	4
63	2	2	0	0	0	0	0	0	0	0	0	7	7
64	4	4	0	0	0	0	0	0	0	0	0	0	4
65	4	2	1	0	0	0							
MEAN	1.6	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.2	1.2	3.1
S D	2.037	2.397	1.658	.000	.000	.000	.000	.000	.000	.000	.889	2.300	2.738
TOTAL OBS.	651	593	651	630	651	600	589	589	600	651	630	651	7486

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

STATION NO:	STATION NAME:	LATITUDE:	LONGITUDE:	BAROMETER ELEV FT	CALL SIGN:	WMO NO:
13827	SMYRNA TENNESSEE/SEWART AFB	N 36 00	W 086 32	535	KSYM	

### STATION HISTORY AND WIND EQUIPMENT INFORMATION

DATE OF CHANGE	TYPE OF STATION CHANGE	WIND EQUIPMENT LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HEIGHT ABOVE GROUND
Aug 42	Smyrna Army Air Field AAF Weather Station	Not available	N/A	N/A	N/A
10/25/48	Smyrna AFB Det 9L 26 Wea Sq	Not available	N/A	N/A	N/A
3/31/50	Sewart AFB Det 9L 26 Wea Sq	Not available	Selsyn ML-151 ML-152	ML-144	N/A
1/14/51	Det 20L 16 Wea Sq	Not available	No change	No change	N/A
6/3/53	Det 4 25 Wea Sq	Located on top of control tower	No change	No change	65 Ft
6/10/54	No change	No change	No change	No change	77 Ft
4/29/55	No change	No change	No change	No change	80 Ft
4/2/56	No change	No change	No change	No change	75 Ft
4/1/58	Det 16 3 Wea Sq	No change	No change	No change	65 Ft
4/13/59	No change	Located approximately 1/4 mile SW of station near runway 32.	AN/GMQ-11	RO-2	15 Ft
4/4/62	No change	Located approximately 1/4 mile NW of ROS	No change	No change	No change
12/1/63	Det 34 25 Wea Sq	No change	No change	No change	No change
4/2/65	Det 16 3 Wea Sq	No change	No change	No change	No change
4/1/66	No change	No change	No change	No change	No change

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

## EXTREME VALUES

SURFACE WINDS  
(FROM DAILY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

46-47,50-65  
YEARS

### DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46									NW 34				
47	W 50	NW 38											
50		W 37	SSE 54	SSE 36	WSW 36	S 47	WSW 49	SSW 36	NNW 28	NNW 40	S 39	SSW 39	
51	NNW 44	SSW 40	NNW 52	SW 37	W 42	WSW 59	SSW 37	NNW 33	NW 45	NNW 25	SSW 43	S 34	WSW 55
52	NNW 41	SSW 37	SSW 43	SSE 43	WSW 33	WSW 35	SSW 43	ESE 29	NNW 36	N 36	SE 36	SSE 30	SSW 43
53	SSW 33	SSE 35	SE 36	WSW 36	SSW 42	NNW 61	NNW 43	NW 30	N 26	N 26	S 31	WSW 37	NNW 61
54	W 38	S 51	SW 44	SW 33	NNW 38	NNW 36	SW 42	WSW 43	NW 40	NNW 43	SSW 30	SW 47	S 51
55	N 35	SW 36	NNW 56	W 43	W 43	WSW 44	SSW 33	NNW 42	N 33	NNW 36	NW 38	SSW 26	NNW 56
56	SE 37	NNW 45	NW 39	W 41	NE 43	W 36	NNW 45	SSE 40	N 28	S 22	NW 36	NNW 27	NNW 45
57		N 31		SW 53	NNW 45	NNW 35	NW 45	E 34	SSE 46	S 34	S 43	SSW 37	
58	SW 36	SW 35	NW 33	NNW 51	NNW 36	N 40	SSW 45	NW 37	NNW 20	NNW 23	SSW 30	SW 24	NNW 51
59	S 45	S 30	SSE 34	SW 33	NNW 26	NNW 26	S 28	NNW 23	SW 23	SSW 25	N 30	S 25	S 45
60	S 23	SW 30	WSW 28	W 27	SSE 26		N 29	NW 35	W 26	WSW 23		NW 29	
61	NW 28	N 33	W 35	SSE 32	WSW 34		W 29	SSE 21	ESE 49	SSE 24	S 33	SSE 26	
62	W 31		W 37		ESE 34	N 26	NNE 21	NNE 25	ESE 20	NNW 25	NNW 29	NW 28	
63	NW 34	N 28	SW 35	S 27	S 23	NNW 31	NNW 30	NNW 27	NNE 23	S 24	SSE 35	WSW 31	SW 35
64	30/ 44	26/ 30	21/ 41	19/ 31	27/ 33	30/ 31	31/ 33	33/ 31	36/ 26	32/ 25	17/ 35	26/ 40	30/ 44
65	23/ 41	29/ 35	23/ 37	24/ 39	28/ 37	31/ 38							
E.T. C.21.2	50	51	56	53	45	61	49	43	49	43	43	47	61
MEAN	37.3	35.7	40.3	37.5	35.7	38.6	36.8	32.4	31.4	28.7	34.9	32.0	48.6
S. D.	7.098	5.975	8.172	7.726	6.580	10.172	8.360	6.695	9.395	6.984	4.688	6.719	7.633
TOTAL OBS.	465	449	462	448	491	420	461	460	478	461	420	465	5480

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

[illegible]

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-47, 49-66  
YEARS

ALL  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.6	2.4	.8	.1	.0		.0				7.4	6.7
NNE	.7	1.3	1.2	.3	.0	.0						3.5	6.6
NE	.6	.9	.6	.1	.0	.0	.0					2.2	5.8
ENE	.3	.5	.3	.1	.0	.0						1.1	5.3
E	.6	.5	.2	.0	.0							1.4	4.6
ESE	.7	.8	.3	.0	.0	.0						1.9	4.8
SE	1.7	2.1	1.0	.2	.0	.0	.0					5.1	5.2
SSE	1.6	2.8	2.3	1.0	.2	.0	.0	.0				8.1	7.0
S	1.9	3.2	3.3	1.6	.3	.0	.0	.0	.0			10.3	7.4
SSW	.8	1.4	1.8	1.1	.3	.1	.0	.0	.0			5.4	8.5
SW	.7	1.1	1.4	.7	.2	.0	.0					4.1	8.0
WSW	.4	.8	1.0	.5	.1	.0	.0	.0				2.9	8.3
W	.7	1.2	1.4	.8	.2	.0	.0	.0				4.2	7.9
WNW	.5	.9	1.1	.7	.2	.0	.0	.0				3.5	8.4
NW	1.1	1.7	1.9	.9	.2	.0	.0	.0				5.9	7.6
NNW	.9	1.8	2.1	1.0	.2	.0	.0					6.0	7.7
VARBL													
CALM												26.9	
	14.8	23.5	22.4	9.8	2.1	.4	.0	.0				100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

195141



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47, 49-66  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.4	3.6	1.6	.2	.0						9.2	7.8
NNE	.5	1.3	1.4	.6	.1							3.9	7.3
NE	.4	.8	.6	.2	.0							1.9	6.2
ENE	.3	.3	.2	.0								.8	5.2
E	.4	.4	.1	.0								.9	4.5
ESE	.6	.7	.4	.0								1.7	4.9
SE	1.7	2.2	1.4	.3	.0	.0						5.7	5.5
SSE	1.3	2.8	3.3	1.6	.8	.2	.0	.0				10.0	8.7
S	1.2	2.6	4.3	2.2	.5	.1	.0					10.9	8.6
SSW	.4	1.2	1.9	1.4	.6	.1						5.5	9.9
SW	.6	1.0	1.5	.9	.3	.0	.0					4.4	8.7
WSW	.3	.5	.9	.6	.1	.1						2.5	9.0
W	.6	1.3	1.4	.8	.2	.0						4.4	8.1
WNW	.6	1.0	1.4	1.0	.3	.0	.0					4.3	8.7
NW	1.1	1.9	2.9	1.8	.4	.1	.0					8.1	8.6
NNW	.8	1.9	3.0	1.7	.3	.1						7.7	8.5
VARBL													
CALM												18.2	
	12.2	22.5	28.1	14.6	3.7	.7	.0	.0				100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 17060

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) Dir.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.9	3.3	1.4	.2	.0						9.1	7.5
NNE	.7	1.4	1.4	.4	.0	.0						3.9	6.7
NE	.5	.9	.7	.3	.0	.0						2.4	6.8
ENE	.3	.5	.3	.1								1.2	5.8
E	.6	.4	.2	.1	.0							1.2	4.9
ESE	.6	.7	.3	.1	.0	.0						1.7	5.4
SE	1.3	1.8	1.1	.3	.1	.0						4.7	6.1
SSE	1.1	2.6	2.8	1.1	.4	.1						8.1	7.9
S	1.0	2.4	3.5	2.1	.4	.1	.0					9.5	8.7
SSW	.5	1.1	2.0	1.5	.7	.2	.0					6.0	10.4
SW	.4	.7	1.1	.9	.3	.1	.0					3.6	9.8
WSW	.3	.8	1.2	.6	.2	.0						3.1	9.0
W	.6	1.2	1.9	1.4	.4	.1		.0				5.5	9.1
WNW	.3	1.0	1.5	1.1	.3	.1						4.3	9.6
NW	.9	2.0	2.4	1.7	.5	.1	.0					7.6	9.1
NNW	.7	2.0	2.9	1.9	.5	.0						8.0	9.0
VARBL													
CALM												20.0	
	11.0	22.2	26.8	15.0	4.0	.9	.1	.0				100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

14882

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

10827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.4	3.1	1.2	.1	.0						7.9	7.6
NNE	.7	1.6	1.6	.5	.0							4.4	6.8
NE	.4	1.0	.7	.1								2.2	5.8
ENE	.4	.6	.3	.1		.0						1.3	5.5
E	.4	.6	.3	.0	.0							1.4	5.1
ESE	.6	.8	.7	.1	.0	.0						2.2	6.0
SE	1.2	2.2	1.4	.4	.1	.0	.0					5.3	6.3
SSE	1.2	2.9	2.7	1.7	.4	.0	.0	.0				8.9	8.0
S	1.4	2.7	4.2	2.6	.5	.0			.0			11.3	8.6
SSW	.5	1.0	2.0	1.8	.6	.3	.0	.0				6.3	10.7
SW	.4	.8	1.4	1.1	.4	.1	.0					4.2	10.2
WSW	.3	.7	1.2	.9	.2	.1	.0	.0				3.5	9.9
W	.6	1.1	2.1	1.5	.3	.1	.0	.0				5.8	9.4
WNW	.4	1.0	1.8	1.2	.4	.1	.0	.0				4.9	9.8
NW	.7	1.6	2.2	1.7	.5	.1	.0					6.9	9.4
NNW	.7	1.6	2.4	1.5	.4	.0						6.6	8.8
VAPBL													
CALM												16.9	
	10.9	22.6	28.0	16.3	4.1	.9	.1	.0	.0			100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

16366

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.2	2.6	.9	.1	.0						6.7	7.3
NNE	.4	1.2	1.3	.4	.0							3.3	6.9
NE	.4	.8	.7	.1	.0							2.0	6.1
ENE	.3	.5	.3	.1								1.3	5.8
E	.6	.6	.3	.1	.0							1.6	5.0
ESE	.6	.7	.3	.1	.0	.0						1.7	5.4
SE	1.1	1.7	1.0	.4	.0	.0						4.2	5.8
SSE	1.4	3.0	3.0	1.3	.3	.1	.0					9.2	7.7
S	1.5	3.3	5.2	2.9	.5	.2	.0	.0				13.6	8.7
SSW	.6	1.3	3.0	2.4	.5	.1	.0		.0			7.9	9.9
SW	.5	.7	1.8	1.5	.4	.1						4.9	10.1
WSW	.3	.7	1.0	.9	.3	.2	.0					3.4	10.4
W	.5	1.0	1.3	1.1	.4	.1	.0	.0				4.3	9.6
WNW	.4	.8	1.7	1.3	.3	.2	.0					4.7	9.9
NW	.8	1.3	2.3	1.2	.3	.0	.0					6.1	8.7
NNW	.7	1.6	2.0	1.0	.1	.0						5.6	7.9
VARBL													
CALM												19.6	
	11.0	21.5	27.8	15.6	3.5	.9	.1	.0	.0			100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

15839

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 15	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.1	1.9	.5	.1	.0						5.9	6.5
NNE	.7	1.2	1.2	.3	.0							3.5	6.3
NE	.5	.9	.6	.1	.0							2.1	5.8
ENE	.4	.4	.3	.0								1.1	5.4
E	.8	.5	.3	.0								1.6	4.5
ESE	.8	.7	.3	.1								1.9	4.6
SE	1.7	1.9	1.1	.2	.0							4.9	5.2
SSE	1.6	2.6	2.3	.9	.1	.0						7.6	6.8
S	2.1	3.3	3.3	1.5	.3	.0						10.6	7.2
SSW	1.0	2.0	2.1	1.1	.2	.0						6.6	7.6
SW	.8	1.3	1.8	.7	.2	.6	.0					4.8	7.9
WSW	.4	.8	1.2	.6	.1	.0						3.1	8.2
W	.6	1.5	1.5	.7	.1	.0						4.5	7.5
WNW	.4	.9	1.1	.4	.1	.0						3.0	7.9
NW	1.1	1.5	1.3	.4	.1	.0						4.4	6.6
NNW	.8	1.6	1.3	.6	.2	.0						4.5	7.2
VARBL													
CALM												29.9	
	14.9	23.2	21.8	8.2	1.7	.2	.0					100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

16361

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEHART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.3	1.6	.4	.0							5.7	5.9
NNE	.5	1.2	1.0	.1								2.9	6.0
NE	.6	.9	.6	.1								2.3	5.4
ENE	.4	.6	.3	.0								1.4	5.2
E	.8	.6	.2	.0	.0							1.6	4.4
ESE	.8	.7	.4	.0								1.9	4.7
SE	1.7	2.4	.8	.1	.6							5.0	4.7
SSE	1.8	2.1	1.4	.4	.9	.0						5.9	5.7
S	2.0	3.7	2.5	.9	.1	.0						10.1	6.1
SSW	1.1	1.7	1.0	.8	.2	.0	.0					5.5	7.2
SW	1.1	1.7	2.7	.8	.1	.0						5.7	7.3
WSW	.6	1.0	1.2	.6	.1	.0						7.5	7.4
W	.9	1.4	1.5	.4	.1	.0						4.6	7.0
WNW	.6	.7	.7	.3	.0	.0	.0	.0				2.4	6.9
NW	1.1	1.3	1.0	.3	.0	.0		.0				3.8	6.1
NNW	.8	1.3	1.5	.4	.0							4.1	6.7
VARBL													
CALM												33.8	
	16.9	23.8	18.7	5.9	.7	.1	.0	.0				100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

15689

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.5	1.5	.4	.0			.0				6.1	5.6
NNE	.8	1.3	1.2	.2	.0	.0						3.5	6.0
NE	.6	1.1	.6	.1	.0	.0						2.5	5.6
ENE	.4	.6	.3	.0								1.3	5.1
E	.6	.9	.3	.0	.0							1.8	4.8
ESE	.9	.8	.2	.0								1.9	4.3
SE	1.8	1.7	.6	.1								4.2	4.5
SSE	2.0	2.7	1.4	.3	.0							6.4	5.3
S	2.7	3.9	2.5	.4	.0							9.5	5.5
SSW	1.0	1.9	1.7	.5	.0	.0						5.1	6.4
SW	1.0	1.6	1.5	.4	.1							4.6	6.5
WSW	.6	1.1	1.2	.4	.0	.0						3.4	7.0
W	1.1	1.6	1.4	.5	.1	.0						4.6	6.5
WNW	.6	.9	.7	.2	.0	.0	.0	.0				2.5	6.2
NW	1.2	1.4	1.0	.2	.0							3.8	5.6
NNW	.9	1.3	1.0	.3	.0	.0						3.5	6.0
VARBL													
CALM												35.2	
	17.9	25.4	17.1	4.0	.3	.1	.0	.0				100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

15619

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.7	1.7	.3	.0							6.4	5.7
NNE	.6	1.4	1.2	.2								3.5	6.2
NE	.6	1.2	.7	.1	.0							2.7	5.4
ENE	.3	.6	.2	.1	.0							1.2	5.4
E	.9	1.0	.3	.0	.0							2.2	4.4
ESE	1.0	.9	.2	.0								2.2	4.1
SE	2.1	2.3	.6	.0								5.1	4.3
SSE	1.7	2.4	1.0	.2	.0							5.4	5.2
S	2.3	3.8	2.2	.4	.0	.0						8.8	5.6
SSW	1.0	1.5	1.4	.3	.0	.0						4.2	6.1
SW	.6	1.4	1.2	.3	.0							3.6	6.5
WSW	.4	.9	.9	.3	.0	.0						2.6	6.9
W	.7	1.2	1.3	.4	.0			.0				3.6	6.7
WNW	.6	1.0	.7	.1	.0		.0					2.5	6.0
NW	1.4	1.9	1.2	.3	.0	.0		.0				4.8	7.6
NNW	1.0	2.1	1.6	.5	.0	.0						5.3	6.4
VARBL													
CALM												35.9	
	17.0	26.5	16.5	3.7	.3	.0	.0	.0				100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

16005



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	3.5	2.2	.5	.1							8.3	5.8
NNE	.9	1.3	1.4	.4	.0	.0						4.0	6.5
NE	1.0	1.2	.8	.1	.0	.0						3.1	5.3
ENE	.4	.6	.3	.1	.0							1.4	5.6
E	.7	.8	.3	.1								1.9	4.8
ESE	1.1	1.1	.4	.0								2.6	4.5
SE	2.3	2.2	.9	.2	.0							5.6	4.7
SSE	2.1	2.7	1.8	.5	.0							7.1	5.7
S	2.5	3.1	2.3	.6	.0							8.5	5.8
SSW	.8	1.4	1.3	.5	.1							4.1	6.8
SW	1.0	1.1	1.2	.3	.0							3.6	6.0
WSW	.4	.6	.5	.2	.0							1.7	6.3
W	.6	.8	.7	.1	.0	.0						2.3	5.9
WNW	.7	.8	.5	.2	.0		.0					2.1	5.7
NW	1.7	1.5	1.1	.4	.0	.0						4.7	5.6
NNW	1.2	1.8	1.5	.3	.0							4.8	6.0
VAPBL													
CALM												34.0	
	19.6	24.4	17.3	4.4	.3	.0	.0					100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

16554

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	2.7	2.1	.9	.1	.0						8.0	6.2
NNE	.7	1.1	1.0	.3	.0	.0						3.1	6.3
NE	.6	.7	.3	.2	.0							1.8	5.4
ENE	.4	.2	.2	.0								.8	5.0
E	.7	.3	.1	.0	.0							1.2	4.0
ESE	.8	.8	.2	.0	.0							1.8	4.3
SE	2.2	2.0	.6	.1	.0							4.9	4.4
SSE	2.0	2.6	1.6	.6	.1							7.0	5.9
S	2.1	2.9	2.2	.9	.1	.0						8.2	6.2
SSW	.9	1.1	1.2	.5	.1	.0						3.8	7.1
SW	.9	1.0	.8	.5	.0	.0						3.2	6.5
WSW	.5	.6	.6	.2	.1	.0						2.0	6.9
W	.7	.9	.8	.3	.1							2.7	6.5
WNW	.8	1.1	1.0	.5	.1							3.4	7.0
NW	1.6	2.5	2.1	.8	.1	.0						7.1	6.5
NNW	1.2	2.3	2.4	1.0	.1	.0						7.0	7.1
VARBL													
CALM												34.2	
	18.2	22.7	17.1	6.8	.8	.1						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 17105

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.9	2.5	.7	.1	.0						7.8	6.5
NNE	.4	.9	.7	.2	.0							2.3	6.3
NE	.5	.5	.4	.1								1.5	5.7
ENE	.2	.2	.1	.0								.6	4.6
E	.4	.2	.0	.0								.7	3.7
ESE	.5	.6	.2	.0	.0							1.4	4.7
SE	1.8	2.4	1.3	.4	.0							5.8	5.5
SSE	1.7	3.5	3.1	1.5	.2	.0						10.1	7.2
S	1.6	2.9	3.8	2.0	.6	.1						11.0	8.2
SSW	.6	1.0	1.9	1.0	.4	.0	.0					4.9	9.0
SW	.6	.9	1.1	.6	.1	.0						3.3	7.6
WSW	.4	.6	.9	.5	.2	.0						2.6	8.6
W	.7	1.0	1.4	.8	.2	.0						4.1	8.3
WNW	.6	.9	1.3	1.0	.3	.0						4.1	9.0
NW	1.1	1.8	2.4	1.3	.3	.1						7.0	8.1
NNW	1.1	2.1	2.8	1.3	.3	.0	.0					7.6	8.0
VARBL													
CALM												25.2	
	13.9	22.4	24.0	11.5	2.7	.4	.0					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

16558

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.8	2.6	1.0	.2	.0						8.1	7.1
NNE	.6	1.1	1.1	.4	.0	.0						3.3	6.8
NE	.5	.8	.6	.1	.0		.0					2.0	5.7
ENE	.3	.4	.1	.0								.9	5.0
E	.5	.4	.1	.0								1.0	4.1
ESE	.7	.9	.3	.0	.0							1.9	4.7
SE	1.9	2.7	1.3	.2	.1	.0						6.1	5.4
SSE	1.5	3.9	3.2	1.6	.5	.1	.0					10.8	7.7
S	1.4	3.3	4.1	2.1	.5	.1						11.4	8.1
SSW	.6	1.2	1.8	1.0	.3	.1	.0					4.7	8.7
SW	.6	.9	1.4	.8	.2	.0						4.0	8.3
WSW	.4	.8	1.2	.7	.2	.0						3.2	8.6
W	.6	1.3	1.5	.9	.2	.0	.0					4.6	8.1
WNW	.5	.8	1.1	.8	.2	.1	.0					3.5	9.0
NW	1.1	1.9	2.2	1.2	.2	.0	.0					6.7	7.7
NNW	.8	1.7	2.7	1.4	.3	.1						7.0	8.5
VARBL													
CALM												20.6	
	13.6	24.8	25.5	12.1	2.9	.5	.0					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

17103

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.4	3.8	1.0	.3	.0						3.9	7.8
NNE	.6	1.0	1.4	.3	.1							3.4	7.0
NE	.4	.3	.8	.1								1.6	7.1
ENE	.1	.1	.1									.3	4.7
E	.2	.2										.5	3.8
ESE	1.0	1.1	.4									2.5	4.6
SE	1.7	2.8	1.4	.2	.1							6.1	5.5
SSE	1.4	3.1	2.8	1.2	.9	.2	.0					9.6	8.4
S	1.3	2.2	3.7	1.8	.6	.0						9.6	8.5
SSW	.4	1.1	1.8	.8	.2	.0						4.5	8.8
SW	.4	.8	1.1	.7	.1	.0						3.1	8.3
WSW	.3	.3	.6	.6	.0	.0						1.8	9.5
W	.8	.7	1.0	.7	.2							3.4	7.9
WNW	1.0	.9	1.4	1.1	.3							4.6	8.4
NW	1.5	1.6	3.0	1.5	.6	.1						8.3	8.6
NNW	.7	1.9	2.7	1.3	.4	.1						7.1	8.7
VARBL													
CALM												24.5	
	13.0	20.7	25.8	11.4	3.8	.7	.0					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

2133

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	2.9	2.9	1.7	.3	.1						9.7	7.6
NNE	.4	.9	1.2	.0	.2							2.7	6.9
NE	.2	.7	.7	.2								1.9	6.9
ENE	.2	.3	.2									.7	5.2
E	.4	.2										.7	3.6
ESE	.4	.7	.2	.1								1.5	5.2
SE	2.0	3.4	.9	.2	.0							6.6	5.0
SSE	1.5	3.1	2.8	1.1	.8	.3	.0	.0				9.9	8.5
S	.9	2.4	3.5	1.7	.3							8.8	8.2
SSW	.2	.9	1.1	.7	.5							3.5	9.6
SW	.8	1.1	1.1	.3	.4	.0						3.7	7.7
WSW	.4	.4	1.0	.1	.1							2.0	7.7
W	.7	1.1	1.6	.6	.0							3.9	7.3
WNW	.9	.9	1.1	.7	.2	.0						4.0	8.0
NW	1.5	1.8	3.1	1.8	.5		.0					8.8	8.5
NNW	.8	1.4	2.8	1.5	.2	.1						6.8	8.9
VARBL													
CALM												25.0	
	13.3	22.2	24.1	10.8	3.7	.7	.1	.0				100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 2133

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47, 49-66  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 15	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.5	3.0	1.7	.2	.0						8.7	8.0
NNE	.5	1.1	1.3	.3	.1							3.3	7.1
NE	.1	.7	.6	.1								1.5	6.6
ENE	.2	.4	.2	.0								.9	5.6
E	.4	.4	.2	.0								1.0	5.0
ESE	.8	.9	.3									2.1	4.4
SE	2.1	2.6	1.8	.3	.1							6.8	5.4
SSE	2.0	3.7	3.1	1.6	.4	.2						11.0	7.6
S	.9	2.4	3.8	1.8	.2	.1						9.2	8.3
SSW	.2	1.4	1.3	.7	.5							4.0	9.1
SW	.5	.8	1.2	.4	.2							3.0	8.0
WSW	.2	.2	.6	.2	.0	.1						1.4	7.5
W	.6	1.3	1.2	.9	.0							4.0	7.7
WNW	.5	.8	1.5	.6	.2	.0						3.6	8.5
NW	1.3	2.7	3.4	1.5	.2							9.2	7.9
NNW	.9	2.0	2.7	1.6	.4	.1						7.7	8.6
VARBL													
CALM												22.5	
	12.5	23.7	26.1	12.1	2.6	.6						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 2133

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.2	4.1	2.1	.3							9.8	8.3
NNE	.4	1.6	1.6	.9								4.5	7.6
NE	.3	.8	.8	.2								2.1	6.6
ENE	.2	.5	.4									1.1	5.7
E	.6	.5	.3	.0								1.5	5.0
ESE	.7	1.0	.5	.0								2.2	5.1
SE	1.4	1.8	1.1	.3		.0						4.6	5.7
SSE	1.2	3.2	3.5	1.4	.9	.4	.1					10.6	8.9
S	.8	3.4	5.0	3.1	.6	.2	.0					13.2	9.2
SSW	.3	1.2	2.0	1.8	.8	.1						6.3	10.7
SW	.5	.6	1.9	1.3	.5							4.8	9.5
WSW	.0	.8	1.0	.8	.2	.1						3.0	10.3
W	.2	1.6	1.7	1.0	.0	.1						4.7	8.4
WNW	.2	.9	1.8	1.2	.4							4.5	9.4
NW	.8	1.9	3.2	1.8	.3	.0						8.2	8.8
NNW	.9	1.4	2.7	1.8	.3	.1						7.2	9.0
VARBL													
CALM												11.7	
	9.9	23.2	31.7	17.7	4.4	1.2	.1					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

2132



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.7	3.7	1.8	.3							8.5	8.4
NNE	.5	1.5	1.5	1.1								4.6	8.0
NE	.6	1.4	.5	.3	.0							2.8	6.1
ENE	.2	.4	.2	.2								1.1	7.0
E	.6	.5	.0									1.1	3.7
ESE	.4	.6	.4	.0								1.4	5.2
SE	1.3	1.1	1.4	.3	.0							4.2	6.0
SSE	.5	1.5	3.0	2.1	1.1	.3						8.5	10.6
S	.9	2.1	5.2	3.7	1.3	.2						13.3	10.3
SSW	.4	1.0	2.6	2.8	1.2	.3						8.3	11.5
SW	.3	1.3	3.2	1.9	.7	.1	.0					7.6	10.2
WSW	.4	.8	1.3	1.2	.0	.0						3.8	9.0
W	.6	1.6	2.3	1.3	.3	.0						6.2	8.6
WNW	.3	1.2	2.2	1.2	.4							5.2	9.4
NW	.9	1.5	3.4	2.4	.4							8.6	9.2
NNW	.5	1.6	3.5	1.9	.3							7.8	9.0
VARBL													
CALM												6.9	
	9.3	19.7	34.5	22.3	6.2	1.0	.0					100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

2132

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWARD AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.9	3.8	1.8	.1							10.0	7.5
NNE	.8	1.9	1.9	.8								5.4	6.9
NE	.4	.9	.5	.2								2.0	6.2
ENE	.2	.6	.1									.9	5.1
E	.3	.3	.0									.7	3.9
ESE	.5	.5	.3	.1								1.4	5.2
SE	1.7	1.0	1.6	.3	.0							4.7	6.0
SSE	.7	2.6	3.1	1.7	.7	.2						9.0	9.0
S	1.5	3.2	5.4	2.3	.7							13.1	8.4
SSW	.4	1.5	2.9	2.3	.7	.1						7.8	10.0
SW	.6	1.5	1.7	1.6	.2							5.7	8.7
WSW	.4	.8	1.0	.5	.1	.1						2.9	8.6
W	.8	1.8	1.7	.9	.4							5.6	8.1
WNW	.5	1.5	1.4	1.4	.1							5.0	8.7
NW	.8	2.2	2.4	1.6	.3	.1						7.6	8.5
NNW	.5	2.5	3.7	1.9	.2							8.8	8.5
VARBL													
CALM												9.5	
	11.5	25.8	31.6	17.4	3.5	.6						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

2133

DATA PROCESSING DIVISION  
ETAS, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47.49-66  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	2.9	3.8	1.3								9.9	7.0
NNE	.5	1.6	1.1	.5								3.7	6.9
NE	.5	1.0	.4	.1								2.0	5.6
ENE	.3	.2	.0									.6	3.7
E	.4	.5	.3									1.2	4.8
ESE	.6	.4	.5	.0								1.6	5.2
SE	1.7	2.4	1.4	.3								5.9	5.4
SSE	1.2	2.7	4.1	1.7	.5	.0						10.2	8.2
S	1.8	2.4	4.0	1.8	.2							10.4	7.7
SSW	.9	1.3	1.5	1.0	.1	.1						5.1	8.2
SW	.9	.9	1.2	.8	.1	.0						3.9	7.8
WSW	.5	.5	.8	.3	.3	.0						2.9	3.6
W	.5	1.3	1.2	.5	.1	.1						3.8	8.3
WNW	.3	.8	.8	.5	.1	.0	.0					3.9	8.3
NW	.8	1.9	2.5	1.8	.4	.0						7.5	8.7
NNW	1.2	2.1	2.8	1.5	.2							7.8	7.8
VARBL													
CALM												20.5	
	14.7	23.0	26.5	12.0	2.0	.5	.0					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 2132

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47, 42-46  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.9	3.5	1.3	.1							7.7	7.7
NNE	.5	1.2	1.3	.6	.1							3.7	7.8
NE	.4	.8	.2									1.4	4.5
ENE	.6	.1	.0									.8	3.4
E	.2	.4	.1									.8	4.9
ESE	.6	.4	.3									1.3	4.9
SE	1.8	2.7	1.4	.3								6.1	5.4
SSE	1.7	2.8	3.6	2.0	.8	.1						10.9	8.3
S	1.4	2.8	3.6	1.3	.3	.0						9.4	7.7
SSW	.3	1.3	1.7	.9	.5	.0						4.8	9.2
SW	.7	.8	1.0	.5	.1							3.0	7.5
WSW	.3	.5	.7	.7	.0	.0						2.3	8.7
W	.8	.9	.8	.6	.3							3.5	7.7
WNW	.5	1.1	1.1	.8	.3	.0						3.9	8.8
NW	1.3	1.5	1.9	1.4	.5	.0						6.6	8.5
NNW	1.1	2.6	3.1	1.7	.2	.0						8.8	8.0
VARBL													
CALM												25.2	
	13.2	21.8	24.2	12.1	3.1	.4						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

2132

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0000-6200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	3.2	3.1	1.1	.1							9.1	6.8
NNE	.4	.6	1.1	.3								2.3	7.3
NE	.5	.4	.5	.2								1.6	6.0
ENE	.2	.2	.3	.1								.8	6.7
E	.3	.3	.2	.1								.9	5.2
ESE	.6	.3	.3									1.2	4.6
SE	1.5	2.7	1.2	.5	.2							6.1	5.9
SSE	1.6	2.5	2.0	.9	.3	.1						7.4	7.3
S	1.1	2.2	3.1	1.7	.2	.1						8.3	8.1
SSW	.5	1.5	1.8	1.1	.4							5.3	8.9
SW	.4	1.1	.6	.4	.2							2.3	7.8
WSW	.4	.4	.9	.2	.1							2.0	7.5
W	.6	1.2	1.3	.3	.4							3.8	7.9
WNW	.2	1.0	1.1	.7	.2	.1						3.2	8.9
NW	1.1	2.4	2.4	1.3	.5	.4						8.8	8.7
NNW	1.2	2.7	2.7	1.8	.4	.1						8.8	8.1
VARIABLE													
CALM												28.3	
	12.3	22.6	22.7	10.5	2.9	.6						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 1861

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.5	2.7	1.2	.2							8.2	7.2
NNE	.9	1.1	1.0	.2								3.2	6.1
NE	.2	.6	.4	.3	.1							1.5	8.0
ENE	.2	.2		.1								.5	5.2
E	.4	.3	.1									.7	3.4
ESE	.6	1.0	.7									2.3	5.2
SE	1.4	2.4	1.0	.4	.2							5.3	5.8
SSE	1.2	2.5	3.0	1.2	.4							8.3	7.8
S	.9	1.7	2.8	1.7	.2	.1						7.3	8.4
SSW	.3	.7	1.8	1.3	.4	.2						4.7	10.4
SW	.5	.5	.8	.3	.2	.1						2.3	8.2
WSW	.2	.8	.5	.2	.1							1.6	6.9
W	.5	1.4	1.2	.6	.2	.1						4.0	8.1
WNW	.9	1.2	.9	.4	.3	.1						3.8	7.3
NW	1.5	2.4	2.5	1.6	.4	.2						8.5	8.1
NNW	.7	2.0	3.6	1.5	.6							8.4	8.8
VARBL													
CALM												29.4	
	12.0	21.2	32.8	11.0	3.0	.6						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 1860

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEAR

FEB  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.4	3.0	1.5	.1							8.5	7.2
NNE	.4	1.0	1.6	.4	.1							3.4	7.3
NE	.5	1.0	.7	.1								2.3	5.9
ENE	.2	.2	.5	.1								1.0	6.9
E	.5	.2	.4		.1							1.1	6.0
ESE	.6	1.0	.3									1.9	4.5
SE	1.7	2.5	1.7	.2								6.1	5.5
SSE	1.3	2.9	3.2	1.3	.4	.1						9.2	7.7
S	1.2	2.3	3.4	1.3	.1							8.3	7.7
SSW	.4	.7	1.6	1.4	.5	.2						4.8	11.0
SW	.3	.8	.7	.5	.1	.1						2.4	8.7
WSW	.1	.6	1.0	.2	.2							2.0	8.3
W	.7	1.3	1.5	1.2	.5	.1						5.3	9.6
WNW	.3	1.1	1.1	.7	.1							3.3	8.2
NW	.9	1.8	1.9	1.1	.5	.1						6.3	8.7
NNW	.9	1.3	3.4	2.0	.9							8.6	9.0
VARBL													
CALM												25.5	
	11.4	21.5	26.0	12.0	3.1	.5						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

1857

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.4	3.2	1.7	.3							8.7	8.0
NNE	1.0	2.0	1.8	.8	.1							5.6	6.9
NE	.4	1.6	.8	.4	.2							3.3	7.1
ENE	.3	.6	.4	.1								1.5	6.0
E	.8	.6	.3	.2								1.9	5.1
ESE	.4	.6	.3	.1	.1							1.5	6.0
SE	1.2	1.5	1.3	.6	.2							4.8	6.9
SSE	1.0	3.1	3.0	1.3	.8	.1						10.0	8.4
S	.9	2.6	3.8	3.1	.9	.2	.1					11.5	9.6
SSW	.5	.9	1.6	2.2	1.4	.3						6.9	11.9
SW	.2	.3	1.1	1.7	.4	.3						4.1	12.1
WSW	.2	.8	1.4	1.3	.2							3.9	9.9
W	.4	.9	2.1	1.9	.4	.1						5.9	9.9
WNW	.3	.8	2.2	1.6	.3	.1						5.1	9.9
NW	.4	1.3	2.0	2.0	.3	.1						6.1	9.9
NNW	.4	1.4	2.9	2.3	.6	.1						7.7	10.1
VARBL													
CALM												11.7	
	9.4	21.4	29.0	21.2	6.1	1.2	.1					100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

1860



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L S T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.9	3.4	1.7	.2	.1						8.2	8.3
NNE	.9	1.5	1.9	.5								4.8	7.1
NE	.3	1.0	1.2	.5								3.0	7.3
ENE	.4	1.1	.6									2.0	5.3
E	.4	.5	.1	.2								1.2	5.5
ESE	.5	.8	.1	.2								1.6	5.5
SE	.9	1.0	1.0	.2	.2	.1						3.4	7.2
SSE	.4	1.6	2.9	1.2	.6	.1						6.8	9.7
S	.5	1.7	4.0	4.0	.8	.2	.1					11.3	10.7
SSW	.4	1.2	2.5	2.5	1.2	.7	.1					8.7	12.1
SW	.2	.9	1.8	1.9	.9	.3	.2					6.2	12.0
WSW	.4	.8	2.2	1.2	.5	.1						5.2	9.9
W	.4	1.2	3.3	2.7	.5	.1						8.2	10.0
WNW	.2	1.2	1.8	2.1	.5	.1						5.8	10.8
NW	.5	1.5	2.9	2.2	.9		.1					8.0	10.2
NNW	.6	1.3	2.6	2.5	.4							7.3	9.7
VARBL													
CALM												8.2	
	7.7	19.3	32.3	23.7	6.7	1.7	.4					100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

1859

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	3.2	4.8	1.3	.2	.2						10.6	8.0
NNE	1.0	1.9	2.0	.5	.1							5.5	6.6
NE	.6	.9	1.0	.4								2.8	6.5
ENE	.3	.5	.4	.1								1.3	6.2
E	.6	.7	.2	.1								1.6	4.6
ESE	.5	.6	.3	.3		.1						1.8	6.4
SE	.7	1.2	1.0	.2	.1	.1						3.3	7.0
SSE	.8	2.0	2.7	1.2	.5	.1						7.2	8.4
S	1.1	2.4	4.2	2.7	.4	.1						11.0	8.9
SSW	.5	1.2	3.0	2.1	.8	.2	.1					8.0	10.6
SW	.1	1.0	1.9	1.2	.4	.1						4.7	10.3
WSW	.1	1.1	1.4	.6	.4	.1						3.7	9.5
W	.9	1.5	2.7	2.4	.5	.2		.1				8.1	9.6
WNW	.1	1.2	2.5	1.5	.5	.2						6.0	10.4
NW	.4	1.3	2.8	2.5	.6	.1						7.8	10.2
NNW	.3	2.4	2.9	1.9	.4	.1						8.0	8.9
VARBL													
CALM												8.7	
	9.1	23.2	33.7	18.9	4.9	1.3	.1	.1				100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 1861

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	3.5	3.3	1.2	.3							9.8	7.4
NNE	1.0	1.7	.9	.2								3.8	5.4
NE	1.0	.7	.9	.3	.1	.1						3.0	6.6
ENE	.5	.6	.2	.1								1.3	5.1
E	.9	.1	.2									1.1	3.6
ESE	.5	.8	.4	.1								1.8	5.6
SE	1.3	1.2	1.0	.3	.1							4.0	6.1
SSE	1.0	2.5	2.5	1.1	.1							7.2	7.3
S	1.2	3.1	2.4	1.3	.1	.1						9.1	7.5
SSW	.6	1.7	2.1	.7	.2	.1						5.5	8.0
SW	.8	.9	1.2	.4	.1							3.4	7.3
WSW	.3	1.0	.8	.6	.2							2.8	8.3
W	.4	1.3	1.8	1.2	.2	.1						5.0	8.8
WNW	.4	.7	1.3	.9	.1	.1						3.4	9.0
NW	.8	2.6	2.8	1.4	.6	.1						8.3	8.5
NNW	.9	2.0	2.5	1.7	.4							7.6	8.5
VARBL													
CALM												22.9	
	13.0	24.2	25.3	11.6	2.5	.5						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 1863

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	3.7	2.7	1.2	.3							9.5	7.0
NNE	.4	1.2	.8	.1	.1	.1						2.6	6.6
NE	.5	.8	.5	.2	.1							2.0	6.6
ENE	.3	.3	.2									.7	4.9
E	.5	.3	.4									1.2	5.0
ESE	.6	.5	.3	.1		.1						1.5	5.5
SE	1.6	2.0	1.2	.1								4.9	5.1
SSE	1.7	3.7	2.3	.9	.3	.1						8.9	6.8
S	1.4	3.0	3.4	1.4	.3	.1						9.5	7.6
SSW	.6	1.1	1.5	1.1	.3							4.5	8.8
SW	.5	.4	1.0	.5	.2							2.6	8.3
WSW	.5	.8	1.2	.6	.1	.2						3.3	9.0
W	.8	.9	1.5	.4	.2	.1						3.8	7.8
WNW	.3	.7	1.2	1.2	.3	.2						4.0	10.5
NW	1.2	2.5	2.0	1.3	.5	.1						7.7	8.2
NNW	.6	2.3	2.4	1.9	.4							7.6	8.7
VARBL													
CALM												25.7	
	12.9	24.2	22.4	10.9	3.0	.8						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 1861

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.2	2.8	1.0	.1							7.7	7.0
NNE	.6	1.4	1.0	.1								3.2	5.9
NE	.5	.9	.4	.0								1.8	5.1
ENE	.0	.4	.1	.0								.6	6.2
E	.4	.3	.2	.0								1.0	5.0
ESE	.4	.7	.7	.1								2.0	5.9
SE	1.6	2.9	1.2	.1								5.9	5.1
SSE	1.3	3.3	2.3	1.0	.1	.0	.0					8.2	7.1
S	1.5	3.4	4.0	1.5	.3							10.7	7.5
SSW	.7	.8	1.6	1.0	.6	.1						4.8	9.7
SW	.6	.4	.8	.5	.2	.2						2.8	9.4
WSW	.4	.9	.8	.6	.1	.0						2.9	8.5
W	.8	.7	1.0	.8		.0		.0				3.5	8.1
WNW	.6	1.3	1.3	.8	.4	.1	.0					4.5	8.9
NW	1.5	2.1	2.1	1.4	.4	.2						7.6	8.2
NNW	.6	1.8	1.5	1.2	.4	.0						5.6	8.6
VARBL													
CALM												27.2	
	13.2	23.7	21.8	10.3	2.8	.8	.1	.0				100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.5	2.4	1.3	.0							7.0	7.5
NNE	.8	1.3	1.2	.4								3.7	6.6
NE	.4	.8	.4									1.6	5.3
ENE	.3	.2	.0									.6	4.1
E	.5	.5	.2		.0							1.3	4.8
ESE	.8	.6	.6	.1								2.2	5.5
SE	2.2	3.2	1.4	.3	.0							7.1	5.3
SSE	1.7	2.7	2.4	.7	.3	.0						7.9	6.8
S	1.3	2.7	4.0	2.0	.2							10.2	7.9
SSW	.5	.8	1.3	1.2	.1	.1						4.2	9.4
SW	.4	.7	.8	.7	.1	.0						2.9	8.7
WSW	.2	.7	.6	.8	.1	.0						2.4	9.4
W	.8	.9	1.3	.9	.1	.1						4.1	8.3
WNW	.6	1.3	1.4	.7	.3							4.3	8.0
NW	.8	2.1	2.4	1.6	.3	.0						7.4	8.3
NNW	1.1	1.6	2.2	.9	.4							6.1	7.9
VARBL													
CALM												27.0	
	13.2	22.7	22.7	11.6	2.2	.4						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.0	2.6	1.2	.1							7.0	7.6
NNE	.9	1.7	1.6	.7								4.9	6.9
NE	.5	1.0	1.0	.1								2.6	6.1
ENE	.4	.8	.2	.0								1.5	4.8
E	.5	.3	.1									.9	4.3
ESE	.9	.8	.5	.1								2.3	5.3
SE	1.8	2.4	1.4	.5			.0					6.1	5.9
SSE	2.1	3.7	2.8	1.5	.3	.0	.0					10.4	7.2
S	1.4	1.8	4.5	2.1	.6							10.4	8.6
SSW	.7	.7	1.3	1.3	.2	.2						4.4	9.8
SW	.4	.8	1.1	.9	.1							3.4	8.7
WSW	.3	.5	.8	.8	.3	.0						2.8	10.1
W	.4	.8	1.7	1.1	.3							4.3	9.3
WNW	.5	1.1	1.2	1.2	.2	.0						4.3	8.9
NW	.5	1.7	2.5	1.2	.7	.0						6.6	9.4
NNW	1.0	1.4	2.3	.9	.3							5.9	8.0
VARBL													
CALM												21.9	
	13.3	21.5	25.7	13.7	3.3	.4	.1					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

COND.TION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.7	3.7	1.4	.2							7.8	8.4
NNE	.7	2.0	1.8	.7								5.2	7.0
NE	.4	1.3	1.0	.1								2.8	6.2
ENE	.5	1.0	.9	.3								2.7	6.5
E	.5	.7	.1	.1								1.4	4.8
ESE	.4	.6	1.1	.1								2.3	6.4
SE	.8	1.7	1.0	.6	.1							4.3	7.0
SSE	.9	3.0	3.0	2.3	.8		.1					10.1	9.2
S	.7	2.3	4.9	4.1	1.1	.0						13.1	10.1
SSW	.5	1.3	2.0	2.6	.9	.4	.1	.0				7.8	11.6
SW	.1	.4	1.6	1.8	.9	.3						5.2	12.6
WSW	.0	.5	1.8	1.5	.2	.2						4.3	11.1
W	.2	1.2	2.7	2.1	.8	.1						7.2	10.7
WNW	.4	.3	2.1	1.7	.3							5.0	10.7
NW	.5	.8	1.9	2.1	1.1	.1						6.6	11.4
NNW	.4	1.2	2.7	1.8	.3	.0						6.5	9.3
VARBL													
CALM												7.7	
	8.1	20.0	32.4	23.2	7.1	1.4	.2	.0				100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

2046



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28901

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥ 56	%	MEAN WIND SPEED
N	.6	2.0	3.6	1.5	.1							7.8	8.2
NNE	.4	1.7	1.9	.5	.0							4.5	7.3
NE	.1	1.1	1.1	.1								2.5	7.2
ENE	.3	.6	.4	.0								1.3	5.5
E	.3	.8	.4									1.5	5.1
ESF	.4	.8	.7	.1	.0							2.1	6.4
SE	.3	1.0	1.6	.4	.1	.0						3.6	8.0
SSE	.4	1.3	2.3	2.5	.7							7.2	10.4
S	.7	1.5	4.3	4.3	1.0	.1						11.9	10.6
SSW	.2	.9	3.0	3.7	1.4	.6	.0					10.1	12.8
SW	.2	.6	1.8	2.2	.7	.2	.1					5.9	12.5
WSW	.4	.9	1.7	1.8	.4	.3	.1	.0				5.6	11.4
W	.5	.9	3.0	3.4	.4	.1						8.4	10.5
WNW	.3	1.0	3.1	2.6	.9	.1		.0				8.1	11.2
NW	.5	.9	2.1	2.1	.6	.2						6.4	10.6
NNW	.1	1.6	3.0	2.1	.4	.1						7.3	10.0
VARBL													
CALM												5.9	
	5.9	17.6	33.9	27.3	6.8	2.2	.3	.1				100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STAT ON

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	2.5	3.6	1.5	.1							8.5	8.0
NNE	.6	2.0	2.3	.7								5.5	7.3
NE	.6	1.2	.8	.1								2.7	5.8
ENE	.3	.5	.3	.0								1.1	5.5
E	.2	.8	.5	.0								1.6	6.0
ESE	.7	.8	1.0	.2	.0	.0						2.7	6.8
SE	.4	1.2	1.4	.2	.1	.0						3.5	7.6
SSE	.5	2.0	2.8	2.5	.4							8.3	9.3
S	.8	2.5	3.7	4.1	.4							11.6	9.5
SSW	.1	1.4	3.3	2.7	.9	.3						8.3	11.0
SW	.1	1.1	2.1	1.7	.8	.1						5.9	10.9
WSW	.2	.6	1.7	1.4	.4	.0	.0					4.4	11.1
W	.0	1.0	3.0	2.8	.7	.1		.1				7.8	11.1
WNW	.2	.8	1.8	1.8	.9	.0	.0					5.6	11.3
NW	.3	1.8	2.7	2.6	.7	.1	.0					8.3	10.9
NNW	.4	1.7	3.0	2.3	.6							8.0	9.7
VARBL													
CALM												5.5	
	6.5	21.8	33.9	24.8	6.4	.9	.1	.1				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS

2045

DATA PROCESSING DIVISION  
ETAC, USAF  
ANNEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-32	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	3.5	2.8	.9	.2							9.1	6.7
NNE	1.2	2.0	1.3	.4								4.9	6.2
NE	.8	1.0	.8									2.5	5.0
ENE	.6	.5	.4			.0						1.3	5.4
E	.4	.7	.3									1.5	5.1
ESE	.3	1.1	.6	.1	.0							2.2	6.3
SE	.9	2.1	1.5	.2	.4							5.2	7.0
SSE	1.4	3.9	2.6	1.6	.2							9.7	7.2
S	2.1	3.6	4.1	2.4	.1							11.2	7.0
SSW	1.3	1.3	2.0	.8	.3							5.5	7.9
SW	.4	1.2	1.4	.3	.1	.1						3.5	7.8
WSW	.6	.9	1.7	.1	.1							3.5	7.2
W	.3	2.9	2.6	.6	.2	.1	.0					6.5	8.1
WNW	.4	1.0	1.9	.7	.1	.1						4.2	8.7
NW	.6	2.0	1.9	1.3	.3	.0						6.2	8.3
NNW	.7	2.0	2.5	1.5	.3	.1						7.1	8.5
VARBL													
CALM												15.5	
	14.1	28.8	26.5	9.8	2.5	.5	.0					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

2045

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.5	3.1	1.0		.1						7.9	7.2
NNE	.6	1.2	1.5	.2								3.6	6.6
NE	.2	.6	.3									1.1	5.5
ENE	.4	.3	.2									.9	4.7
E	.6	.7	.4									1.7	4.9
ESE	.6	.9	.2	.0								1.8	4.7
SE	1.6	2.8	1.5	.4	.1							6.5	8.0
SSE	1.5	3.5	3.0	1.4	.2		.0	.0				9.7	7.4
S	2.4	3.5	3.9	1.3	.2	.0			.0			11.4	7.2
SSW	.5	.9	1.5	1.0	.4	.2	.0					4.6	10.1
S'W	.6	1.2	1.2	.7	.2							4.0	7.9
WSW	.3	.7	.7	.4	.0							2.2	8.2
W	.8	1.7	1.7	.5	.0	.0						4.8	8.9
WNW	.3	.8	1.3	.4	.2	.1						3.2	9.0
NW	.5	1.6	2.3	1.4	.1	.1						6.0	8.7
NNW	.9	1.5	2.2	1.1	.3							6.0	7.9
VAPBL													
CALM												24.6	
	13.2	24.4	25.0	10.0	2.0	.6	.1	.0	.0			100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYKNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥56	%	MEAN WIND SPEED
N	1.1	1.6	1.9	.5	.1							5.4	3.3
NNE	.3	1.1	.8	.4								2.5	7.0
NE	.1	.9	.6									1.1	6.5
ENE	.3	.3		.1								.6	4.3
E	.5	.4	.1	.1								1.0	4.8
ESE	.7	.9	.5									1.8	4.6
SE	1.4	2.4	1.1	.2								5.2	5.1
SSE	2.1	3.8	3.8	1.1	.2							10.7	6.6
S	1.6	3.9	5.2	1.6	.2							12.4	7.3
SSW	.5	.9	1.9	1.9	.3	.1						4.5	9.2
SW	.3	.4	.8	.9	.1	.1						2.5	9.3
WSW	.3	.5	1.1	.6	.1							2.4	8.6
W	.3	1.1	1.1	.7	.1	.1						9.5	7.7
WNW	.9	.5	1.3	.3	.1							3.4	6.7
NW	1.1	2.1	1.7	1.0	.2							6.1	7.2
NNW	.7	1.4	1.3	.4	.1							3.7	6.6
VARBL													
CALM												33.2	
	12.2	22.2	22.5	8.6	1.2	.2						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.6	1.6	.7	.1	.1						5.3	7.0
NNE	.3	.8	1.3	.1								2.4	6.7
NE	.6	.7	.6	.1								1.9	5.3
ENE	.1	.4	.2	.1								.7	6.4
E	.3	.5	.3									1.0	5.0
ESE	.9	.9	.4	.1								2.2	4.9
SE	1.6	2.7	1.2	.3								5.8	5.3
SSE	2.0	3.2	3.2	1.1	.2							9.7	6.8
S	1.7	3.4	4.9	2.0	.2	.1						12.2	7.8
SEW	.9	1.3	2.2	.9	.3				.1			5.6	8.4
SW	.4	.4	1.3	.7	.1							2.8	8.9
WSW	.3	.7	.5	.3	.2	.1						1.9	8.2
W	1.0	1.0	1.3	.5	.1							3.7	6.6
WNW	.6	1.1	1.7	.6	.1	.1						4.0	7.9
NW	1.1	1.0	2.2	.5								4.7	6.8
NNW	.7	1.1	1.4	.5								3.7	6.9
VARBL													
CALM												32.4	
	13.5	20.4	24.2	8.1	1.1	.3			.1			100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.8	2.8	.8	.1							6.4	7.3
NNE	.7	1.3	1.2	.2								3.4	6.1
NE	.5	.8	.8	.1								2.2	6.2
ENE	.5	.4	.6	.3								1.7	6.6
E	.7	.5	.4	.2								1.8	5.5
ESE	.9	.8	.2	.2								2.1	5.0
SE	1.7	2.3	.7	.3	.1							5.0	5.1
SSE	1.9	4.2	3.5	1.4	.4	.1	.1					11.4	7.3
S	2.0	3.9	5.5	3.0	.2							14.6	7.9
SSW	.4	1.1	3.1	2.4	.3							7.2	9.7
SW	.3	.5	1.5	1.0	.3							3.5	10.1
WSW	.2	.4	1.1	.7	.2							2.5	9.7
W	.4	.7	1.4	.7	.4	.2						3.5	9.7
WNW	.1	.8	1.2	1.3	.3	.1						3.7	10.4
NW	1.0	1.3	2.0	1.0	.2							5.4	7.9
NNW	.7	1.3	1.7	.9	.1							4.7	7.8
VARBL													
CALM												21.0	
	12.7	21.9	27.4	14.3	2.3	.4	.1					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

1980

1 DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.6	3.1	1.4	.2							6.8	8.4
NNE	.4	1.2	1.9	.5	.1							4.0	7.7
NE	.2	1.1	1.0	.3	.1							2.7	7.6
ENE	.4	.8	1.0	.2								2.3	6.7
E	.6	.9	.8	.1								2.3	5.7
ESE	.3	.8	.3	.2								1.6	6.3
SE	.7	1.1	.9	.5								3.2	6.7
SSE	.6	1.9	2.9	2.0	.7	.4						8.5	10.0
S	1.0	2.0	6.4	4.1	1.4	.4	.1					15.3	10.4
SSW	.6	1.4	4.4	4.1	.7	.1						11.3	10.5
SW	.5	.6	2.4	2.3	1.2	.4						7.3	11.9
WSW	.3	1.1	1.4	1.9	.9	.2						5.6	11.3
W	.3	1.0	1.4	2.3	.4	.2						5.5	10.9
WNW	.2	.6	2.0	2.2	.4	.2	.1					5.6	11.4
NW	.3	.9	2.5	1.2	.7	.1						5.6	10.3
NNW	.4	1.3	2.9	1.3	.4							6.2	9.1
VARBL													
CALM												6.2	
	7.0	16.0	35.4	24.5	7.0	1.8	.1					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 1980



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEHART AFB  
STATION NAME

43-45,47,49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.9	3.5	1.0	.1							6.8	7.9
NNE	.3	1.2	1.8	.7								3.9	7.8
NE	.7	1.1	.6	.2	.1							2.6	6.0
ENE	.2	.9	.4	.1								1.5	6.0
E	.7	1.1	.5									2.2	4.8
ESE	.4	.4	.5	.1	.1	.1						1.5	7.2
SE	.4	.7	1.3	.4								2.8	7.4
SSE	.6	1.4	2.4	1.8	.7	.3	.1					7.1	10.5
S	.6	1.5	4.9	5.2	1.3	.5	.1	.1				14.2	11.6
SSW	.5	1.3	4.0	4.9	1.6	.4						12.5	11.7
SW	.6	.9	2.5	3.0	.8	.3						8.0	11.4
WSW	.2	.9	1.3	1.9	.7	.4						5.4	12.0
W	.8	.9	1.1	2.0	1.0	.1		.1				5.9	11.3
WNW	.3	.9	2.0	2.3	1.0	.5						7.0	11.7
NW	.4	1.2	2.5	2.5	.7	.1	.1					7.4	10.4
NNW	.5	1.6	2.3	1.6	.2							6.2	9.1
VARBL													
CALM												5.1	
	7.4	17.7	31.5	27.6	8.0	2.4	.2	.2				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS

1979

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.6	3.6	1.6	.2							8.8	8.0
NNE	.4	1.9	1.3	.6								4.1	7.1
NE	.4	.8	1.2		.1							2.4	6.5
ENE	.5	.5	.4									1.4	5.1
E	.6	.6	.4									1.5	4.8
ESE	.5	.7	.3		.1	.1						1.6	6.2
SE	.6	.9	.6	.4	.1							2.4	6.6
SSE	.5	2.2	3.1	1.6	.4	.1						8.0	8.8
S	.7	2.3	5.3	4.4	.9	.2		.1				13.8	10.1
SSW	.5	1.6	4.6	3.9	.7	.2	.1					11.5	10.5
SW	.5	.8	2.2	2.8	.5	.1						6.9	10.7
WSW	.4	.7	1.5	1.4	.5	.2	.1					4.6	11.2
W	.2	.8	1.3	1.8	.5	.1	.1					4.7	11.3
WNW	.3	.9	1.7	2.1	.8	.4						6.1	11.8
NW	.3	1.1	2.5	2.5	.7	.1	.1					7.2	10.8
NNW	.6	1.9	3.0	2.4	.1	.1						8.0	9.0
VARBL													
CALM												7.1	
	7.6	20.0	32.9	25.3	5.4	1.4	.3	.1				100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	3.8	2.5	.8	.3	.1						8.9	6.7
NNE	.8	1.1	1.1	.4	.1							3.4	6.5
NE	.5	1.0	.4									1.9	4.8
ENE	.5	.6	.2									1.2	4.3
E	1.0	.5	.2	.1								1.7	4.5
ESE	.5	.8	.1	.1								1.4	4.8
SE	1.0	1.8	.9	.5	.1							4.2	6.0
SSE	1.5	3.6	2.5	.7	.1							8.3	6.3
S	2.0	5.2	5.2	1.5	.1							13.9	6.8
SSW	1.1	2.1	1.9	.8		.1						5.9	7.0
SW	.9	1.1	2.2	.9	.1							5.1	7.6
WSW	.4	.8	.6	.3	.2	.3						2.5	9.3
W	.5	1.1	1.5	.5	.7	.1						4.3	9.3
WNW	.5	.9	2.0	.7	.1							4.1	8.2
NW	.8	1.7	2.9	1.0	.2							6.5	7.9
NNW	.7	2.8	2.1	1.2	.1							6.9	7.2
VARBL													
CALM												19.7	
	13.9	28.8	26.1	9.3	1.7	.4						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STAT ON NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.4	1.8	.3	.1							5.4	6.2
NNE	.4	1.2	.9	.1								2.5	5.6
NE	.5	.6	.4									1.5	5.1
ENE	.2	.5	.1									.7	4.5
E	.4	.5	.3		.1							1.2	5.0
ESE	.6	.5	.2		.1							1.3	4.9
SE	1.6	1.7	1.1	.4		.1						4.8	5.9
SSE	2.0	3.9	2.9	.9	.2							9.9	6.4
S	2.1	4.2	4.3	1.6	.2	.1						12.6	7.1
SSW	.8	.8	2.0	.9	.3							4.7	8.7
SW	.7	.8	1.7	.3	.1							3.5	7.0
WSW	.3	.5	.8	.3		.2						2.0	8.8
W	.3	1.2	1.0	.7	.2							3.3	8.1
WNW	.6	.8	1.4	.8	.1							3.6	8.1
W	1.3	1.6	2.2	.7	.1							5.8	6.9
NNW	1.2	1.8	1.7	.2	.2							5.1	6.3
VARBL													
CALM												32.2	
	13.6	22.9	22.5	7.1	1.4	.3						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.2	.9									3.2	5.2
NNE	.3	.5	.4	.1								1.3	6.0
NE	.3	.3	.0									.7	3.7
ENE	.3	.1	.1									.6	3.6
E	.9	.3	.3									1.5	4.0
ESE	.7	.3	.4	.1								1.5	5.3
SE	2.5	1.6	1.3	.1								5.4	4.8
SSE	1.8	2.7	1.8	.6	.1							6.9	6.0
S	2.6	3.1	2.1	.9	.0							8.8	5.9
SSW	1.2	1.6	.6	.2								3.6	5.1
SW	.5	.7	.7	.1	.0							2.2	6.2
WSW	.3	.5	.4	.0	.1							1.4	6.9
W	.4	.8	.9	.3								2.4	6.4
WNW	.6	.6	.4	.0								1.8	5.2
NW	1.6	1.8	.9	.2	.0							4.4	5.2
NNW	1.0	1.1	.7	.1								3.0	5.1
VARBL													
CALM												51.3	
	16.2	17.3	12.0	2.8	.3							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.4	.5	.1								2.8	5.4
NNE	.7	.5	.3	.0								1.6	4.9
NE	.2	.3	.3									.9	5.1
ENE	.1	.1	.1									.3	5.4
E	.7	.4	.1									1.3	3.8
ESE	1.2	.9	.2									2.3	3.9
SE	2.8	2.6	1.6	.2	.0							7.0	5.1
SSE	2.2	3.5	2.0	.3								8.0	5.3
S	2.4	2.6	2.5	.7								8.3	6.0
SSW	.6	1.1	.5	.1								2.3	5.1
SW	.2	.6	.4	.1								1.4	6.2
WSW	.3	.3	.6	.1	.0							1.4	7.3
W	.6	.7	.8	.4								2.5	7.0
WNW	.8	.6	.4	.1								2.0	5.2
NW	1.9	1.5	.7	.1	.1							4.4	5.2
NNW	.8	1.5	.6	.3	.0							3.2	5.7
VARBL													
CALM												50.3	
	16.3	18.8	11.7	2.6	.2							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

2045

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	1.4	.4								5.4	5.8
NNE	.7	1.1	.9	.2								3.0	6.2
NE	.6	.6	.4	.3								2.0	6.3
ENE	.1	.2	.3	.1								.8	6.8
E	.5	.4	.3									1.3	5.1
ESE	1.2	1.0	.2	.1								2.5	4.1
SE	3.3	2.6	1.0	.1								7.0	4.3
SSE	3.1	3.1	3.0	1.0								10.3	5.9
S	2.4	4.4	4.0	2.0	.2							13.0	7.0
SSW	.7	1.3	2.0	.7	.2							4.8	7.6
SW	.2	.7	1.1	.5	.1							2.7	8.5
WSW	.3	.4	.7	.4	.1							1.9	8.2
W	.2	.9	1.0	.5	.2							2.9	8.3
WNW	.3	.6	.8	.1	.0							1.9	7.1
NW	.8	.8	.8	.3								2.7	6.2
NNW	.5	1.4	.9	.5	.2	.0						3.5	7.7
VARBL													
CALM												34.2	
	16.3	22.1	18.9	7.4	1.0	.0						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

2045

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.4	2.1	1.2	.0							5.7	7.7
NNE	.6	1.5	1.8	.5								4.4	7.0
NE	.4	1.3	1.5	.1								3.3	6.5
ENE	.7	.7	.8	.1								2.3	5.7
E	1.0	1.3	.2	.1								2.6	4.6
ESE	.4	1.1	.4									1.9	4.8
SE	.9	1.7	1.0	.3	.1							4.0	6.3
SSE	.9	2.3	2.7	.9	.3	.1						7.1	7.8
S	1.5	3.8	5.3	2.9	1.0	.0						14.5	8.8
SSW	1.0	2.1	3.7	2.2	.4							9.4	8.7
SW	1.0	1.7	3.2	1.4	.3	.2						7.7	8.8
WSW	.4	1.5	2.2	1.1	.2	.2						5.6	8.9
W	.8	2.3	2.9	1.1	.2	.0						7.4	7.8
WNW	.4	1.2	1.8	.8	.2	.1						4.4	8.7
NW	.6	1.0	1.4	.4	.1	.0						3.6	7.6
NNW	.7	1.3	1.2	.8	.2	.0						4.3	7.9
VARBL													
CALM												11.8	
	2.3	26.1	32.1	13.9	3.1	.8						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

2046



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	2.9	1.0	.2							7.1	7.5
NNE	.4	1.8	2.2	.5	.1							5.1	7.4
NE	.4	1.6	.9	.2	.0							3.1	6.4
ENE	.5	.8	.3	.1								1.8	5.5
E	.7	.5	.4									1.6	4.8
ESE	.7	.6	.5									1.8	5.2
SE	.7	1.3	.8	.5								3.4	6.4
SSE	.9	1.5	2.2	1.9	.5							6.9	9.1
S	.9	2.6	4.2	2.9	.8	.0						11.4	9.1
SSW	.6	2.3	4.6	2.7	.9	.2						11.4	9.6
SW	.7	1.9	3.8	2.0	.6	.1	.0					9.2	9.6
WSW	.3	1.4	2.8	1.5	.1	.1						6.3	9.1
W	.6	2.4	2.4	1.6	.2	.1						7.4	8.5
WNW	.4	1.1	2.0	.9	.3							4.7	8.7
NW	.5	1.9	2.3	.8	.5							6.1	8.4
NNW	.5	1.3	2.1	1.2	.4							5.4	9.0
VARBL													
CALM												7.4	
	9.8	25.0	34.3	18.0	4.7	.6	.0					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

2044

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	3.6	4.6	1.3	.2	.0						11.1	7.4
NNE	1.0	2.2	2.2	.7	.0							6.1	6.9
NE	.4	1.2	.8	.2								2.6	6.3
ENE	.2	.3	.2									.8	5.3
E	.7	.6	.3	.0								1.7	4.8
ESE	.7	.9	.3									2.0	4.6
SE	.7	1.0	.6	.4	.0							2.8	6.4
SSE	.5	1.9	3.0	1.2	.1							6.8	8.2
S	1.0	3.2	4.6	1.9	.6	.1						11.4	8.4
SSW	.6	2.4	3.7	2.3	.4							9.5	8.7
SW	.7	2.2	3.7	1.2	.3							8.2	8.0
WSW	.2	.8	2.2	1.0	.1	.0						4.5	9.0
W	.5	1.8	3.0	1.0	.1	.0						6.6	8.1
WNW	.1	1.3	2.0	.9	.4	.1						4.7	9.5
NW	.6	1.8	2.8	.5	.2	.0						6.0	7.7
NNW	.4	2.0	2.6	1.4	.2	.0						6.8	8.5
VARBL													
CALM												8.4	
	10.1	27.3	36.8	14.0	2.9	.5						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1900-2000  
HOURS (L.S.T.)

COND T.O.N

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	3.3	1.9	.3	.1							8.2	5.3
NNE	1.4	1.4	1.2	.3								4.3	5.8
NE	1.1	.9	.6									2.6	4.6
ENE	.7	.7	.4	.0								1.9	5.0
E	.8	.4	.3									1.6	4.3
ESE	.4	.5	.1	.1								1.1	5.1
SE	1.0	1.9	1.0	.0	.0							4.0	5.2
SSE	1.4	2.7	2.2	.7	.0							7.1	6.3
S	2.6	3.6	1.9	.4	.0							8.6	5.5
SSW	2.1	3.3	1.3	.5								7.2	5.3
SW	1.5	1.9	1.2	.2								4.8	5.2
WSW	.8	1.3	.4	.3		.0						2.8	5.8
W	1.0	1.9	.6	.2	.1							3.8	5.6
WNW	.4	1.4	.8	.2	.2							3.0	6.9
NW	1.5	1.8	1.2	.4	.0							5.0	5.9
NNW	1.0	2.1	1.9	.2	.1							5.3	6.4
VARBL													
CALM												28.6	
	20.4	29.1	17.1	4.1	.7	.0						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITIONS

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.5	1.0									3.7	4.9
NNZ	.8	.7	.7	.1								2.4	5.7
NE	.4	.5	.4	.0								1.4	5.3
ENE	.2	.2	.2									.6	4.6
E	.8	.2	.2									1.2	4.2
ESE	1.0	.6	.2	.2								2.0	4.8
SE	1.9	2.2	1.3	.1								5.5	4.9
SSE	1.9	2.9	1.6	.7	.0							7.4	6.1
S	3.1	3.3	1.5	.5								8.5	5.1
SSW	1.6	1.9	.6	.2	.0							4.4	5.0
SW	1.1	.8	.5	.2								2.7	5.3
WSW	.3	.5	.3	.1								1.2	5.9
W	.9	.8	.7	.2								2.6	5.8
WNW	.3	.4	.6	.1	.0							1.5	6.9
NW	1.0	1.5	.5	.1	.0							3.1	5.1
NNW	1.0	2.2	.8	.2	.0							4.3	5.5
VARBL													
CALM												47.5	
	17.7	20.2	11.4	3.0	.2							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS 2043

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.5	.2		.1							2.9	4.4
NNE	.3	.2	.1	.1								.6	5.3
NE	.3	.3										.6	3.8
ENE	.1	.2										.3	4.2
E	.8	.4	.1									1.3	3.6
ESE	.8	.7	.2									1.6	4.0
SE	2.8	3.8	.7									7.2	4.3
SSE	1.9	2.6	.8	.2								5.4	4.8
S	3.3	4.2	1.0	.5		.1						9.1	4.9
SSW	1.2	.5	.3	.2	.1							2.2	4.8
SW	.9	.5	.6	.1								2.0	5.0
WSW	.3		.2	.1								.6	6.5
W	1.0	.5	.5	.1								2.1	4.6
WNW	1.0	.7	.1	.1								1.8	3.7
NW	1.4	1.0	.4	.1		.1						3.0	4.8
NNW	.9	.5	.4	.2	.1							2.0	5.7
VARBL													
CALM												57.3	
	18.1	17.5	5.6	1.3	.2	.1						100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 1962

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.4	.4	.1								3.1	4.5
NNE	.5	.5	.1									1.1	4.1
NE	.3	.2	.1									.6	4.5
ENE	.3	.1	.1									.4	3.4
E	1.0	.1										1.1	2.6
ESE	1.3	.7	.2									2.2	3.9
SE	3.1	3.4	.7	.1								7.3	4.2
SSE	2.2	2.3	1.1	.1		.1						5.8	4.9
S	2.9	3.4	1.5	.5	.1							8.3	5.2
SSW	.6	.5	.5	.1								1.7	5.5
SW	.5	.3	.5	.1								1.4	5.9
WSW	.2	.3	.3	.2	.1							.9	7.6
W	.3	.4	.2	.1								.9	5.2
WNW	.6	.3	.4	.1								1.3	5.5
NW	1.8	1.3	.4	.1								3.5	4.0
NNW	.6	.6	.5									1.7	4.9
VARBL													
CALM												58.9	
	17.3	15.4	6.9	1.4	.1	.1						100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

1962

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

0600-0800  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3	1.1	.2								3.8	5.4
NNE	.5	.8	.6									1.8	5.3
NE	.6	.7	.6	.1								1.9	5.4
ENE	.5	.4	.1									1.0	4.2
E	.5	.3	.3									1.0	4.4
ESE	1.1	.6	.2	.1								1.9	4.1
SE	2.6	2.4	1.2	.2	.1							6.5	4.8
SSE	2.8	3.2	1.8	.4								8.2	5.2
S	3.6	4.7	2.9	1.2								12.4	5.7
SSW	.7	1.6	1.6	.5	.1							4.3	7.1
SW	.8	1.8	1.2	.6	.1							4.5	6.8
WSW	.1	.8	.9	.5								2.3	7.8
W	.4	1.0	1.1	.3								2.8	6.8
WNW	.4	.3	.7	.2	.1							1.5	7.2
NW	1.1	1.1	.5	.3								3.0	5.3
NNW	1.0	1.8	1.1	.2								4.1	5.6
VARBL													
CALM												38.6	
	17.9	22.9	15.8	4.5	.3							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

1962

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.7	2.3	.3								6.8	5.8
NNE	.8	1.1	1.7	.2								3.7	6.2
NE	.9	1.1	1.4	.2								3.5	6.1
ENE	.4	.7	.7	.1								1.7	5.8
E	.6	.8	.4									1.7	4.8
ESE	.6	.5	.4									1.4	4.7
SE	1.2	2.0	.9	.1	.1							4.2	5.3
SSE	1.5	2.1	2.0	.6								6.2	6.5
S	2.1	3.6	4.3	1.8	.3							12.1	7.3
SSW	.6	2.1	3.1	2.2	.5	.1						8.5	9.1
SW	1.0	1.8	4.5	1.6	.3	.1						9.3	8.6
WSW	1.1	2.2	2.8	1.2	.1	.1						7.3	7.5
W	1.5	2.6	2.5	1.3	.1							8.1	7.2
WNW	.6	1.1	1.2	.4								3.2	7.0
NW	.6	1.2	1.1	.3	.1							3.3	6.7
NNW	.7	1.5	2.1	.6	.1							4.9	7.3
VARBL													
CALM												14.0	
	15.4	27.0	31.4	10.8	1.3	.2						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 1962



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	3.0	2.8	.9								7.8	6.7
NNE	.3	2.3	2.3	.2								5.1	6.8
NE	.9	1.6	.8	.2								3.4	5.5
ENE	.4	1.1	.8	.1								2.3	5.9
E	.4	.8	.6	.1	.1							1.8	6.2
ESE	.4	.9	1.0	.1								2.3	6.2
SE	.6	1.3	.7	.1								2.7	5.5
SSE	.9	1.5	2.0	1.0								5.4	7.3
S	1.4	3.0	3.8	2.0	.3							10.5	7.9
SSW	.7	2.1	3.1	1.7	.6	.1	.1					8.3	8.9
SW	1.1	2.2	3.7	2.4	.5	.1						10.0	8.8
WSW	.9	1.5	2.8	1.5	.1							6.8	8.2
W	1.2	2.7	3.5	1.5	.4	.2						9.4	8.1
WNW	.5	1.5	1.3	.7	.1	.1						4.0	7.7
NW	.8	1.8	2.2	.7	.1			.1				5.6	7.5
NNW	.7	1.6	3.6	.8								6.8	7.5
VARBL													
CALM												7.7	
	12.2	28.8	34.9	13.8	2.1	.4	.1	.1				100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

1962

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

ALL WEATHER  
CL 55

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	3.7	3.8	1.2	.1							9.6	7.2
NNE	.6	2.2	2.2	.6								5.6	6.9
NE	.7	1.9	1.4	.2								4.2	5.9
ENE	.5	.6	.9	.1								2.1	6.2
E	.7	1.0	.5	.2								2.2	5.2
ESE	.5	.8	.6	.1								1.9	5.6
SE	.7	1.8	.8	.2								3.4	5.6
SSE	.8	1.7	1.8	1.0	.1							5.4	7.3
S	1.4	3.1	3.2	1.0	.2							8.9	7.2
SSW	.9	2.3	3.7	1.2	.3							8.4	8.0
SW	1.2	3.1	4.0	1.4	.1	.1						9.8	7.6
WSW	.6	1.8	2.0	1.0	.2							5.6	7.8
W	.9	2.0	3.2	1.0	.3							7.3	7.8
WNW	.5	1.2	1.6	.7	.2	.1		.1				4.3	8.4
NW	.8	1.4	2.1	1.0	.1							5.4	7.6
NNW	.8	1.6	3.1	1.5	.1							7.1	7.9
VARBL													
CALM												8.9	
	12.1	30.2	34.9	12.2	1.5	.1		.1				100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

1962

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	3.6	1.7	.2								7.7	5.1
NNE	.9	1.8	.9	.1								3.7	5.3
NE	1.2	1.5	.7	.1								3.5	4.7
ENE	.9	1.2	.1	.1								2.2	4.3
E	1.3	.9	.2									2.4	3.8
ESE	.6	1.2	.3	.1								2.2	4.9
SE	1.2	1.5	.8									3.6	4.7
SSE	1.8	1.4	.9	.2								4.3	5.0
S	3.2	4.2	2.1	.2								9.7	5.0
SSW	2.1	2.6	1.3	.2								6.2	4.9
SW	1.9	2.8	1.0	.2								5.9	5.0
WSW	.9	1.7	.5	.1								3.2	4.9
W	1.3	1.5	.8	.2								3.8	5.1
WNW	.7	.5	.4	.3			.1					1.8	6.6
NW	1.1	1.8	.9	.3	.1							4.2	6.0
NNW	1.0	2.0	1.0	.3								4.4	5.8
VARBL													
CALM												31.1	
	22.5	30.3	13.6	2.3	.1		.1					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

1959

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.7	.6	.2								3.7	4.8
NN'	.6	.7	.1									1.3	4.2
NE	.4	.3										.7	3.4
ENE	.5	.3	.1									.8	3.8
E	1.0	.4										1.3	3.3
ESE	1.2	.5	.2	.1								1.9	3.8
SE	1.7	2.9	.6									5.1	4.4
SSE	2.6	2.3	1.1	.2								6.1	4.8
S	4.1	3.6	1.5	.4	.1							9.7	4.8
SSW	1.6	1.9	.4									4.0	4.2
SW	1.2	1.1	.3	.1		.1						2.7	5.0
WSW	.5	.1	.4	.1								1.0	5.6
W	.8	.7	.5	.1								2.0	5.1
WNW	.7	.4	.2		.1							1.2	4.7
NW	1.1	1.0	.5	.1								2.6	4.8
NNW	.8	.8	.4	.1								2.0	4.6
VARBL													
CALM												53.8	
	19.9	18.5	6.5	1.1	.1	.1						100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 1958

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SELART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.0	.2	.1								2.5	3.8
NNE	.6	.4	.1	.1								1.1	4.0
NE	.3	.7	.1									1.0	4.5
ENE	.1	.2										.3	3.8
E	.5	.4	.1									.9	3.7
ESE	1.1	.6	.2									1.8	3.8
SE	2.4	2.0	.3									4.7	3.9
SSE	2.2	3.6	.7	.2								6.6	4.7
S	3.0	4.1	1.1	.1								8.3	4.5
SSW	.7	1.2	.4	.1								2.3	4.8
SW	.8	1.0	.4	.2								2.4	5.2
WSW	.2	.2	.1	.1								.5	5.3
W	.6	.4	.1	.1								1.2	4.7
WNW	1.3	.4	.2	.1	.1							2.0	4.3
NW	1.8	1.5	.7									4.0	4.4
NNW	1.0	.6	.4									2.0	4.3
VARBL													
CALM												58.5	
	17.8	18.1	4.8	.8	.1							100.0	1.8

TOTAL NUMBER OF OBSERVATIONS

1953

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.6	.1	.1								2.1	3.7
NNE	.2	.4	.1									.7	4.5
NE	.2	.4			.1							.7	4.7
ENE	.1	.1	.1									.2	4.3
E	.6	.3			.1							1.0	4.8
ESE	.9	.7	.1									1.7	3.8
SE	2.7	1.9	.4									5.0	3.8
SSE	2.3	3.2	1.1	.1								6.7	4.7
S	2.2	3.7	1.5									7.5	4.9
SSW	.5	1.1	.5									2.1	4.8
SW	.6	.7	.1									1.4	3.8
WSW	.3	.1	.1									.5	4.2
W	.7	.5	.3									1.4	4.4
WNW	.8	.7	.2									1.7	3.9
NW	2.4	1.5	.3	.1								4.2	4.1
NNW	.9	1.4	.4									2.8	4.4
VARBL													
CALM												60.4	
	16.7	17.3	5.2	.2	.2							100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

1953

DATA PROCESSING DIVISION  
ETAG, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.0	.6	.1								4.7	4.6
NNE	1.1	.6	.7									2.4	4.7
NE	.7	.8	.3	.1		.1						1.8	5.1
ENE	.4	.6	.2									1.1	4.5
E	.6	.5	.2									1.3	4.3
ESE	1.0	.9	.1									1.9	3.7
SE	2.7	1.5	.4	.2								4.8	4.0
SSE	3.1	3.3	2.1	.3								8.7	5.0
S	3.6	5.3	2.7	.2								11.7	5.0
SSW	1.1	1.6	1.6	.4								4.7	6.1
SW	.6	1.4	.8	.4								3.2	6.3
WSW	.4	.8	.6	.2								1.9	6.3
W	.7	1.2	.7	.2	.1							2.9	6.2
WNW	.5	.7	.5	.1		.1						1.8	5.9
NW	1.1	.8	.5	.1								2.5	4.9
NNW	1.2	1.0	.8	.1	.1							3.1	5.5
VARBL													
CALM												41.6	
	20.6	23.0	12.6	2.0	.2	.1						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

1951

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L S T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.7	1.4	.2								5.9	5.2
NNE	.9	2.3	1.4	.3								4.9	6.0
NE	.9	1.5	.7	.3								3.3	5.7
ENE	.6	.9	.6	.1								2.2	5.5
E	.8	1.0	.5									2.3	5.0
ESE	.6	.7	.1									1.3	4.2
SE	1.4	1.2	1.0	.1								3.7	5.1
SSE	1.8	3.1	1.3	.3								6.5	5.3
S	2.2	4.8	4.1	.7								11.7	6.2
SSW	1.3	2.7	3.0	.7	.1	.1						7.8	6.9
SW	1.3	2.5	2.9	1.0								7.6	7.0
WSW	.7	2.2	3.0	.7								6.6	7.1
W	1.5	2.9	2.9	.9	.2							8.4	6.9
WNW	.5	1.6	1.1	.3								3.5	6.4
NW	.8	1.3	1.2	.3								3.6	6.0
NNW	1.0	1.4	1.3	.4								4.1	6.1
VARBL													
CALM												16.4	
	17.9	32.7	26.6	6.2	.3	.1						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 1951



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	3.0	2.9	.7				.1				8.1	6.6
NNE	.7	2.1	2.7	.3	.1							5.9	6.8
NE	.4	1.3	.9	.1								2.7	5.7
ENE	.6	1.0	.5	.2								2.3	5.7
E	.6	1.3	.9	.1								2.9	5.5
ESE	.5	.9	.5	.1								2.0	5.4
SE	.9	1.3	.9	.1								3.2	5.3
SSE	1.2	2.3	2.1	.5								6.1	6.4
S	2.0	3.2	3.2	1.0	.1							9.5	6.5
SSW	1.0	2.4	2.7	1.1	.2							7.3	7.4
SW	.8	2.2	3.2	1.0	.3							7.4	7.8
WSW	.8	2.2	2.6	1.2	.2	.1						7.0	7.7
W	1.3	3.3	3.4	1.2	.1	.1						9.4	7.2
WNW	.7	1.6	1.7	.6	.1			.1				4.7	7.5
NW	.7	2.2	2.0	.6	.1							5.5	6.9
NNW	.9	2.0	2.0	.9		.1						5.9	7.3
VARBL													
CALM												10.0	
	14.7	32.2	32.3	9.6	1.0	.2		.1				100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

1953

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	4.6	4.4	1.3	.1							11.2	7.1
NNE	1.3	2.6	2.7	.5	.1							7.1	6.5
NE	.7	2.2	1.9	.4								5.2	6.5
ENE	.7	.8	.5									2.0	4.9
E	.6	1.5	.5	.1								2.7	5.3
ESE	.6	1.3	.3	.1								2.2	5.0
SE	1.4	1.9	1.0	.4								4.8	5.6
SSE	1.3	1.9	1.8	.4	.1							5.5	6.1
S	1.7	3.6	2.8	.7	.1							9.0	6.4
SSW	.7	2.0	2.7	1.1								6.6	7.6
SW	.9	2.5	3.1	.6	.2							7.2	7.1
WSW	.9	1.6	2.3	.9	.1							5.7	7.4
W	1.3	2.2	2.6	1.2	.1							7.4	7.2
WNW	.2	1.5	1.3	.4	.1		.1					3.6	7.6
NW	.7	1.2	1.6	.7	.1							4.4	7.4
NNW	.5	1.8	2.4	.7								5.4	7.4
VARBL													
CALM												10.0	
	14.4	33.3	32.0	9.4	.7		.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 1952

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L S T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	4.7	2.2	.5								9.9	5.3
NNE	1.0	1.7	1.5	.2								4.4	5.8
NE	1.3	1.5	1.1		.1							4.0	5.2
ENE	.5	1.0	.2									1.7	4.8
E	.8	1.4	.2									2.4	4.2
ESE	1.2	.9	.2	.1								2.4	4.2
SE	1.3	1.8	.6	.1								3.8	4.7
SSE	1.7	2.2	1.2	.3								5.3	5.4
S	2.8	4.1	2.7	.2								9.7	5.1
SSW	1.2	2.4	1.9	.2								5.8	5.7
SW	1.4	1.4	1.0	.1	.1							3.9	5.1
WSW	1.2	1.1	.8	.2	.1							3.4	5.7
W	1.9	1.6	.9	.3								4.7	5.1
WNW	.7	.8	.4	.1								1.9	5.2
NW	.6	1.5	1.2	.1	.1							3.5	5.8
NNW	.8	1.2	.5	.1	.1							2.6	5.4
VARBL													
CALM												30.4	
	21.0	29.5	16.6	2.2	.3							100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

1953

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED 'KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	1.6	.3	.1								4.2	3.9
NNE	.9	.4	.3			.1						1.6	4.8
NE	.4	.6	.1		.1							1.2	4.7
ENE	.3	.3	.1	.1								.7	5.2
E	.6	.5	.1	.1								1.2	4.3
ESE	1.0	.3	.1	.1								1.5	4.0
SE	1.7	1.5	.3									3.6	4.0
SSE	2.2	2.3	1.3	.2								5.9	4.8
S	3.7	2.8	1.7	.3								8.5	4.8
SSW	1.8	1.6	1.1	.2	.1							4.7	5.1
SW	1.3	1.5	.6	.2								3.7	5.0
WSW	.5	.4	.3	.1		.1						1.3	6.4
W	.9	.5	.3	.2								1.8	4.9
WNW	.5	.3	.2	.1								1.0	5.0
NW	1.3	1.4	.4									3.0	4.0
NNW	1.0	.9	.3									2.2	4.0
VARBL													
CALM												53.9	
	20.3	16.9	7.2	1.4	.1	.1						100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

1953

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-56  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.0	.3									2.7	3.9
NNE	.3	.4	.1	.0								.9	4.9
NE	.1	.7	.0									.8	4.5
ENE	.0	.2										.2	4.4
E	1.1	.1										1.2	2.6
ESE	1.7	.9										2.6	3.3
SE	2.6	3.1	.1									5.9	3.8
SSE	1.7	2.0	.6	.0								4.4	4.5
S	2.1	3.2	.6	.1								6.0	4.4
SSW	.8	1.0	.6	.0								2.4	5.1
SW	.4	.7	.3									1.4	4.8
WSW	.3	.2	.1	.1								.7	5.3
W	.7	.3	.3	.0								1.4	4.9
WNW	.5	.8	.1	.0								1.4	4.5
NW	1.9	1.6	.3	.2								4.1	4.3
NNW	.8	1.5	.7	.1								3.2	5.2
VARBL													
CALM												60.1	
	16.7	18.0	4.3	.8								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.0	.5									3.2	3.9
NNE	.4	.2	.2	.1								.9	4.8
NE	.4	.4	.1									.8	4.2
ENE		.2	.1									.2	5.5
E	1.1	.6										1.7	2.9
ESE	.8	.3										1.1	3.2
SE	3.4	3.0	.3	.1								6.7	3.8
SSE	2.0	2.8	.6									5.3	4.4
S	2.9	3.3	1.0	.1								7.2	4.3
SSW	.6	.5	.4	.1								1.6	5.3
SW	.4	.4	.4	.1								1.3	5.7
WSW	.1	.2	.1	.1								.4	6.9
W	.5	.3	.1									.9	3.9
WNW	.8	.7	.1									1.5	3.7
NW	2.1	1.8	.8	.1								4.6	4.3
NNW	1.3	1.6	.3	.1								3.2	4.2
VARBL													
CALM												59.8	
	18.2	16.9	4.7	.5								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

1999

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.8	.7	.0	.0							5.3	4.8
NNE	.5	.7	.4	.2								1.8	5.7
NE	.7	.5	.4		.0							1.7	4.9
ENE	.4	.6	.2	.1	.0							1.5	5.7
E	.4	.2	.1									.8	4.0
ESE	1.0	.6	.2									1.9	3.8
SE	3.0	2.3	.5	.1								6.0	4.1
SSE	2.7	3.6	1.0	.0								7.3	4.4
S	3.1	4.8	2.4	.3								10.6	5.1
SSW	1.0	1.8	1.1	.1								4.0	5.5
SW	.5	1.0	.6	.0								2.2	5.4
WSW	.1	.5	.2	.2	.0							1.1	7.0
W	.2	.5	.5	.1								1.4	6.3
WNW	.5	1.0	.3	.0								1.9	5.0
NW	1.3	1.4	.9	.0								3.6	5.0
NNW	1.3	1.6	.7	.1								3.8	4.9
VARBL													
CALM												44.8	
	18.7	24.2	10.6	1.5	.2							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	2.3	1.8	.2								6.6	5.3
NNE	.6	2.0	1.9	.4								5.0	6.6
NE	1.1	1.3	1.2	.3								4.1	6.0
ENE	.6	.7	.4	.0								1.8	5.1
E	.8	.5	.4	.0	.0							1.8	4.8
ESE	1.0	.8	.1	.1								2.0	4.1
SE	1.8	1.7	1.2									4.8	4.9
SSE	1.2	2.2	1.5	.5								5.5	6.1
S	1.5	4.7	4.2	1.0	.0	.0						11.6	6.8
SSW	.8	2.5	2.6	.7	.1							6.8	7.2
SW	1.1	2.5	1.9	.6	.1							6.3	6.5
WSW	.8	1.8	2.0	.5	.0							5.3	6.9
W	.9	1.8	2.4	.7	.1							5.9	7.1
WNW	.8	1.5	1.0	.3								3.7	6.0
NW	1.2	2.1	1.3	.2								4.9	5.4
NNW	.6	2.2	2.0	.4	.1							5.4	6.7
VARBL													
CALM												18.2	
	17.3	31.1	26.2	6.5	.5	.0						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

2001



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	4.1	3.7	1.1								10.3	6.5
NNE	.9	1.8	2.2	.5								5.3	6.6
NE	.7	2.1	1.1	.2								4.1	5.8
ENE	.5	1.0	.6	.2								2.2	5.9
E	.9	1.7	.6	.1	.1							3.3	5.4
ESE	.8	1.4	.3									2.4	4.6
SE	.5	2.5	.9									3.8	5.1
SSE	1.2	1.1	2.0	.4	.1							5.5	6.3
S	1.0	3.6	3.5	1.1	.2							9.4	7.4
SSW	1.0	2.0	2.7	.4	.1	.1						6.2	6.9
SW	.4	2.4	2.9	1.1	.2							6.8	7.8
WSW	.3	1.9	2.4	1.2	.1							5.8	8.0
W	1.4	2.3	2.8	1.6	.1			.1				7.8	7.8
WNW	.4	1.7	2.2	.4	.1		.1					4.8	7.5
NW	.8	1.7	2.8	.7	.1							6.0	7.5
NNW	.8	2.6	2.9	1.1		.1						7.4	7.4
VARBL													
CALM												9.3	
	12.5	34.2	33.3	9.7	.9	.1	.1	.1				100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 2000

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,49-66  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	4.0	4.2	1.0	.0							10.4	7.0
NNE	.4	3.0	3.3	.6								7.3	7.0
NE	.8	1.8	1.6	.2								4.5	6.0
ENE	.3	1.0	.3	.1								1.8	5.5
E	.6	2.3	.7	.1								3.8	5.2
ESE	.5	1.4	.5	.0								2.5	4.9
SE	1.3	2.1	.9	.2								4.7	5.4
SSE	.8	2.3	1.1	.2	.1							4.6	5.9
S	1.6	3.1	3.3	.5								8.5	6.5
SSW	.5	1.8	2.3	.5		.0						5.3	7.3
SW	.7	2.2	2.3	.4	.1							5.8	7.2
WSW	.4	1.6	1.4	.5	.1	.0						4.2	7.4
W	.7	2.0	2.8	.4	.0							6.1	7.3
WNW	.3	1.4	1.5	.2	.1							3.6	7.1
NW	.8	2.4	2.4	.8	.1	.0						6.6	7.3
NNW	.8	2.9	4.1	1.9	.1							9.9	7.8
VARBL													
CALM												10.0	
	12.3	35.7	33.2	7.8	.7	.1						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,49-66  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	4.1	2.1	.3	.1							8.6	5.6
NNE	1.0	2.5	1.2	.0								4.7	5.3
NE	.8	2.2	.5									3.6	4.8
ENE	.4	.7	.1	.1								1.6	5.0
E	1.1	1.6	.4									3.1	4.3
ESE	1.3	1.0	.4	.0								2.8	4.4
SE	1.8	1.9	.4									4.2	4.1
SSE	1.7	2.3	1.0	.3	.0							5.4	5.2
S	3.1	3.3	1.4	.2								8.2	4.8
SSW	1.9	1.3	.6	.1								4.0	4.5
SW	1.0	1.1	.6	.0								2.8	4.9
WSW	.8	1.0	.5		.0							2.4	4.9
W	1.0	1.5	.9	.1								3.5	5.4
WNW	.7	.6	.2	.0								1.6	4.6
NW	1.5	2.5	.9	.2				.0				5.2	5.3
NNW	.9	2.7	1.6	.4	.1							5.8	6.2
VARBL													
CALM												32.3	
	21.1	30.8	13.2	2.1	.3			.0				100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

2001

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-56  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.0	.5		.0							4.2	4.4
NNE	.7	.7	.4	.0								1.9	5.2
NE	.5	.8	.1									1.5	4.1
ENE	.2	.1	.0									.4	4.0
E	.9	.7										1.6	3.5
ESE	1.1	.8	.2									2.2	4.0
SE	2.4	1.9	.4									4.8	4.0
SSE	1.9	2.4	.5	.2								5.0	4.7
S	3.2	4.2	.9	.1								8.5	4.4
SSW	1.3	1.3	.5	.0								3.2	4.7
SW	.5	.8	.5									1.9	5.0
WSW	.3	.3	.3									1.0	5.2
W	.7	.9	.3	.0								2.0	4.6
WNW	.5	.5	.2									1.3	4.5
NW	1.6	1.5	.3	.0								3.5	4.1
NNW	1.3	1.7	.7	.1								3.9	5.0
VARBL													
CALM												52.8	
	19.1	21.1	6.3	.7	.0							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.8	1.5	.2								6.0	5.4
NNE	.8	.6	.7	.0								2.1	5.4
NE	.5	.4	.3									1.3	4.4
ENE	.2	.1	.0	.0								.4	4.8
E	.2	.2	.1									.6	4.1
ESE	1.0	.9	.2									2.1	3.9
SE	3.1	1.8	.5	.0								5.5	3.8
SSE	3.1	2.9	.8	.0								6.8	4.3
S	3.6	2.4	1.8	.1								7.9	4.7
SSW	.7	.8	.6	.0								2.1	5.4
SW	.8	.3	.2	.2								1.6	5.1
WSW	.3	.1										.4	3.0
W	.5	.5										1.0	3.5
WNW	.9	.6	.3									1.7	4.4
NW	2.8	1.5	.6	.1		.0						5.0	4.4
NNW	1.0	1.3	.7	.0								3.0	4.8
VARBL													
CALM												52.6	
	21.0	17.1	8.3	.9		.0						100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 2070

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	3.1	1.3	.0								6.3	4.9
NNE	.8	.1	.6									1.5	5.2
NE	.5	.6	.1									1.2	4.1
ENE	.4	.1										.6	3.1
E	.2	.1	.0									.3	3.7
ESE	1.2	.6	.2									2.0	3.8
SE	3.9	2.4	.5									6.7	3.8
SSE	2.8	2.3	1.1	.1								6.3	4.6
S	2.3	2.7	1.1	.2								6.2	4.8
SSW	1.1	.7	.4									2.2	4.4
SW	.8	.5	.3	.0								1.7	4.6
WSW	.5	.1	.0									.7	3.4
W	.6	.3	.1	.0								1.1	4.5
WNW	.7	.3	.1	.0								1.2	4.0
NW	2.3	1.7	.5	.0								4.5	4.1
NNW	1.5	1.4	.6									3.6	4.4
VARBL													
CALM												53.8	
	21.3	17.3	7.1	.6								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS

2070

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	2.6	1.4	.3	.0							7.6	4.9
NNE	1.1	1.0	1.2	.4								3.6	6.1
NE	1.3	.7	.4	.0	.0							2.6	4.6
ENE	.1	.3	.0	.0								.5	5.7
E	.8	.2	.2	.0								1.4	4.4
ESE	1.5	.8	.3									2.7	3.9
SE	3.1	2.9	.7	.1								6.8	4.1
SSE	2.6	2.9	1.6	.3								7.3	5.3
S	3.4	3.8	2.2	.5	.0							10.0	5.4
SSW	.4	1.1	.8	.2								2.6	6.4
SW	.8	.8	.4									2.0	4.7
WSW	.1	.5	.1									.7	4.9
W	.3	.4	.4	.0								1.1	5.7
WNW	.5	.4	.3	.1								1.3	5.6
NW	1.7	1.3	.6	.0								3.7	4.4
NNW	1.3	1.9	1.0	.2								4.4	5.2
VARBL													
CALM												41.8	
	22.2	21.6	11.9	2.4	.1							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

2069

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.9	2.4	.3	.0							7.2	6.0
NNE	1.4	2.2	2.7	.8	.2							7.4	7.0
NE	1.3	1.4	1.4	.2								4.3	5.8
ENE	.8	.9	.7	.3	.0							2.8	6.1
E	1.0	1.1	.5	.1								2.7	5.0
ESE	.9	1.1	1.0									2.9	5.4
SE	1.1	1.8	1.4	.5	.0							4.8	6.2
SSE	1.1	3.4	3.2	1.2								8.9	7.0
S	1.3	4.2	4.0	1.5	.0							11.0	7.0
SSW	.7	2.5	2.6	1.4	.2							7.4	7.9
SW	.8	1.4	2.3	.6	.1							5.2	7.3
WSW	.4	1.0	1.4	.3	.0							3.1	7.0
W	.8	1.3	1.2	.4								3.7	6.5
WNW	.5	1.4	.6	.4								2.9	6.3
NW	.7	1.1	.7	.6	.0							3.1	6.8
NNW	1.0	1.4	1.6	.2								4.2	6.0
VARBL													
CALM												18.5	
	15.4	28.9	27.6	8.8	.8							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

2070



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	3.6	3.2	1.0	.2							9.5	7.1
NNE	.6	1.9	2.3	1.3	.1	.0						6.0	7.7
NE	1.3	2.0	1.2	.3								4.9	5.7
ENE	.5	.7	1.0	.2								2.5	6.6
E	1.3	1.5	.5	.1								3.4	4.8
ESE	.8	1.7	.6	.1								3.3	5.4
SE	1.0	2.2	1.5	.5								5.2	6.1
SSE	1.1	2.6	3.0	1.2								7.9	7.4
S	1.2	3.0	3.9	1.3	.2							9.6	7.5
SSW	.5	2.5	3.2	1.2	.1							7.6	7.8
SW	1.2	1.6	2.6	.7	.1							6.1	7.2
WSW	.5	1.0	1.3	.4	.1							3.3	7.5
W	.7	1.7	2.1	.4		.0						5.0	7.0
WNW	.7	1.3	.9	.2	.1							3.2	6.5
NW	1.1	1.8	2.0	.8	.0							5.8	6.8
NNW	1.0	2.3	2.9	1.0								7.2	7.1
VAPBL													
CALM												9.6	
	14.9	31.6	32.1	10.6	1.0	.1						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

2069

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEHART AFB  
STATION NAME

42-46,49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	4.9	4.3	1.3	.0							12.6	6.7
NNE	1.3	2.1	2.2	.5	.0							6.0	6.5
NE	1.1	2.1	1.6	.1								4.9	5.7
ENE	.5	1.4	.6	.1								2.7	5.7
E	1.2	1.5	1.0	.1								3.8	5.3
ESE	1.3	1.8	.7									3.8	4.7
SE	1.1	2.5	1.6	.3								5.5	5.8
SSE	1.2	3.1	2.3	.5								7.1	6.3
S	1.4	3.0	2.7	.9								8.0	6.5
SSW	.9	1.4	1.7	.8	.1							4.9	7.3
SW	1.3	2.1	2.6	.5								6.4	6.4
WSW	.9	.9	.8	.5								3.1	6.5
W	.7	1.4	1.5	.0								3.7	5.9
WNW	.4	1.4	1.2	.3								3.3	6.6
NW	1.2	1.4	2.3	1.2	.1							6.3	7.5
NNW	.8	2.5	2.7	.7	.0							6.7	7.1
VARBL													
CALM												11.2	
	17.2	33.7	29.8	7.8	.4							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

2070

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.1	5.1	2.2	.4	.0							10.9	5.2
NNE	.9	1.7	.7	.3								3.7	5.6
NE	1.2	1.3	.9	.0								3.4	5.0
ENE	.6	.9	.1									1.6	4.2
E	1.1	1.4	.0	.0								2.6	4.2
ESE	1.0	1.2	.1									2.3	4.0
SE	2.3	2.1	.6	.1								5.2	4.4
SSE	2.1	2.6	1.1	.1	.0							6.0	4.9
S	3.0	2.9	1.6	.1								7.6	4.7
SSW	1.2	1.3	.5	.2	.0							3.3	5.1
SW	1.4	1.5	.6									3.5	4.3
WSW	.3	.7	.3	.0								1.4	5.5
W	1.1	.3	.3		.0							1.8	4.6
WNW	1.1	.6	.2	.0								2.0	4.5
NW	1.9	1.7	1.0	.3								4.9	5.2
NNW	1.6	1.6	1.6	.3								5.1	5.8
VARBL													
CALM												34.8	
	23.9	26.9	12.0	2.2	.2							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

2070

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	3.1	1.3	.5								6.6	5.6
NNE	.6	.6	.5	.2								2.0	6.0
NE	.5	1.1	.4			.0						2.1	5.4
ENE	.3	.1	.1	.0								.6	4.6
E	.1	.2	.0									.3	4.6
ESE	1.3	.6	.0									2.0	3.4
SE	3.0	2.1	.4									5.5	3.8
SSE	3.0	1.9	1.2	.2								6.4	4.9
S	3.4	2.7	1.5	.0								7.7	4.6
SSW	1.1	1.0	.6	.1	.0							3.0	5.2
SW	1.0	.7	.5	.1								2.3	4.6
WSW	.3	.3	.1									.7	4.2
W	.4	.4	.2	.0								1.0	4.9
WNW	.7	.1	.3	.1			.0					1.4	6.1
NW	2.2	1.4	.7	.1								4.5	4.5
NNW	1.2	1.9	1.2	.0								4.3	5.3
VARBL													
CALM												49.8	
	20.7	18.4	9.2	1.7	.0	.0	.0					100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

2066

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.4	.7	.4								4.1	5.2
NNE	.2	.4	.6									1.1	6.3
NE	.5	.0		.0								.6	3.7
ENE	.0	.0										.1	4.0
E	.2	.1										.3	3.1
ESE	1.2	.4	.1	.0								1.7	4.0
SE	2.8	2.8	.4	.1	.1							6.1	4.4
SSE	2.7	2.9	1.8	.5								7.8	5.4
S	1.9	2.2	1.2	.3								5.6	5.4
SSW	.7	.3	.6	.1								1.7	5.6
SW	.8	.3	.9	.2								1.4	4.8
WSW	.2	.2	.5	.0	.0							1.0	7.0
W	.4	.9	.7		.0							2.1	6.2
WNW	1.3	1.5	.4	.3	.0							3.6	5.2
NW	2.8	2.4	1.1	.5	.0							6.9	5.2
NNW	1.1	1.6	1.8	.5								5.0	6.2
VARBL													
CALM												51.0	
	18.4	17.4	9.8	3.0	.3							100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

2136

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	29-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	1.4	1.1	.3								4.5	5.3
NNE	.4	.3	.3									.9	4.9
NE	.3	.1										.4	2.8
ENE	.4											.4	2.3
E	.6	.1	.0									.8	3.1
ESE	.7	.8	.1									1.6	4.1
SE	2.3	2.3	.9	.1								5.7	4.6
SSE	2.0	2.6	2.0	.3								6.8	5.5
S	1.6	2.2	1.3	.5	.1							5.7	6.0
SSW	.9	.4	.2	.2								1.7	5.0
SW	.3	.5	.3	.1								1.2	5.8
WSW	.4	.5	.3	.0								1.2	5.1
W	.4	.6	.3	.1								1.4	5.5
WNW	1.2	1.3	.7	.4								3.5	5.9
NW	2.2	2.9	1.7	.3	.0							7.1	5.5
NNW	.9	2.5	1.4	.3	.0							5.2	6.0
VARBL													
CALM												51.9	
	16.4	18.4	10.6	2.6	.2							100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.2	1.8	.7	.2							6.7	6.3
NNE	.7	.6	.6	.1								1.9	5.2
NE	.6	.2	.2	.1								1.1	5.0
ENE	.3	.1	.1									.6	4.6
E	.7	.2	.0									1.0	3.2
ESE	.9	.7	.1									1.7	3.9
SE	3.2	2.8	.4	.2								6.5	4.2
SSE	2.7	2.8	1.4	.6	.1							7.7	5.4
S	2.4	2.3	2.1	.5	.0	.0						7.4	5.7
SSW	.7	.6	.7	.1								2.1	5.8
SW	.7	.2	.4	.1								1.4	5.5
WSW	.6	.6	.4	.2	.0							1.8	6.3
W	.5	.7	.6	.1								1.9	5.9
WNW	.6	.7	1.0	.4	.0							2.8	6.9
NW	2.2	2.9	1.5	.6	.0							7.3	5.7
NNW	1.0	2.2	1.8	.7	.0							5.8	6.8
VARBL													
CALM												42.2	
	19.6	20.0	13.2	4.4	.6	.0						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 2138

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEAR

OCT  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	2.6	3.6	1.5	.3							10.2	7.2
NNE	1.1	1.2	1.7	.7	.0							4.9	7.0
NE	.9	.9	.7	.4								3.0	6.1
ENE	.7	.3	.4	.2								1.6	5.7
E	1.2	.7	.5									2.5	4.3
ESE	.8	1.0	.1	.0								2.0	6.2
SE	2.2	.9	.6	.1								3.9	4.4
SSE	2.1	2.4	2.4	1.7	.2							8.8	7.2
S	1.6	3.6	3.8	1.6	.1							10.8	7.1
SSW	.7	1.9	2.4	1.4	.5							6.7	8.5
SW	.9	1.5	1.4	1.2	.0	.0						5.1	7.9
WSW	.5	.7	1.3	.5	.1							3.2	7.9
W	.6	.5	.8	.4	.1							2.4	7.4
WNW	.4	.6	1.1	.7	.0							2.9	8.3
NW	1.0	1.7	2.0	1.1	.2							5.9	7.8
NNW	1.3	1.9	2.5	1.9								7.3	7.4
VARBL													
CALM												18.8	
	18.4	22.7	25.4	13.1	1.5	.0						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 2139



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	4.2	3.5	2.0	.2	.0						11.9	7.1
NNE	.9	2.2	1.8	.7	.1	.0						5.7	7.0
NE	.9	1.4	.8	.5								3.6	6.3
ENE	.7	.5	.5	.1								1.7	5.3
E	1.0	.7	.3	.0								2.1	4.5
ESE	.6	1.2	.1									1.9	4.4
SE	1.6	1.6	.8	.1								4.1	5.0
SSE	1.0	1.3	1.9	1.0	.2							5.5	7.7
S	1.6	2.8	3.3	2.3	.1	.0						10.1	7.7
SSW	.5	1.5	2.5	1.7	.3	.1						6.6	9.1
SW	1.1	2.3	2.2	1.5	.2							7.3	7.9
WSW	.8	.9	1.6	.5	.2	.0						4.1	8.0
W	1.0	1.1	1.9	.7	.1							4.9	7.6
WNW	.4	.9	2.0	.8	.3							4.4	8.7
NW	.8	2.2	3.0	1.6	.2							7.9	8.3
NNW	.6	2.2	3.5	2.4	.2							8.9	8.7
VARBL													
CALM												9.4	
	15.4	26.9	29.6	16.0	2.3	.3						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

2138

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SKYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	4.5	3.4	1.2	.0	.0						11.9	6.3
NNE	1.1	2.1	2.1	.4	.1	.0						5.8	6.8
NE	1.0	1.8	.5	.1								3.5	5.0
ENE	.5	.5	.4	.1								1.5	5.4
E	.9	.3	.0	.0	.0							1.4	4.2
ESE	.7	.8	.2									1.7	4.4
SE	1.3	1.4	.5	.1								3.3	4.7
SSE	1.4	1.9	1.6	.7								5.7	6.3
S	2.2	4.9	2.8	.9								10.7	6.0
SSW	.9	1.6	1.8	.6	.0							4.9	7.0
SW	.8	1.5	1.4	.5								4.2	6.6
WSW	.5	1.2	.8	.2	.0	.0						2.8	7.1
W	.9	1.3	1.5	.5	.2							4.3	7.0
WNW	.8	1.5	1.4	.8	.1							4.6	7.5
NW	1.1	2.6	3.3	1.4	.0							8.5	7.3
NNW	1.1	3.1	3.9	1.7	.3							10.1	7.8
VARBL													
CALM												15.2	
	17.9	30.9	25.7	9.3	1.0	.1						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	3.6	1.5	.5	.1	.0						8.6	5.4
NNE	.9	1.4	.6	.1								3.0	5.2
NE	.7	.7	.1		.0							1.5	4.5
ENE	.2	.1	.0									.4	4.0
E	.4	.3	.1	.0								.8	4.5
ESE	.5	.7	.2		.0							1.4	5.1
SE	1.5	1.6	.2	.1								3.4	4.3
SSE	2.0	2.8	.9	.2								5.8	4.9
S	2.8	3.2	1.7	.3								7.9	5.0
SSW	1.4	1.5	.9	.2								4.2	5.1
SW	2.1	1.0	.3									3.3	3.6
WSW	.5	.6	.1									1.2	4.3
W	1.0	1.2	.2	.2	.0							2.7	5.1
WNW	.6	.8	.7	.3	.0							2.4	6.6
NW	1.4	2.5	2.2	.7	.0							6.9	6.5
NNW	2.0	2.9	2.1	.5	.2	.0						7.7	6.2
VARBL													
CALM												38.7	
	20.5	25.0	12.0	3.2	.6	.1						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	1.8	1.0	.4								5.8	5.0
NNE	.7	.6	.4									1.6	4.7
NE	.3	.5	.2	.0								1.0	5.4
ENE	.0	.2										.2	4.4
E	.3	.1										.4	3.0
ESE	1.0	.6	.3	.1								2.0	4.8
SE	2.7	2.5	.8	.0								6.0	4.3
SSE	2.3	4.1	1.0	.2								7.6	4.8
S	2.6	2.1	1.8	.6	.0							7.1	5.6
SSW	1.0	.8	.4	.1								2.4	4.8
SW	.9	.3	.3	.1								1.6	4.5
WSW	.4	.5	.1	.1								1.1	5.3
W	.6	.6	.4	.0								1.6	5.1
WNW	.9	1.0	.4	.3	.1							2.8	6.2
NW	1.5	2.7	1.8	.3	.0	.0						6.3	5.9
NNW	1.4	1.9	1.9	.7	.1							6.0	6.4
VARBL													
CALM												46.4	
	19.1	20.4	10.8	3.0	.3	.0						100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

2137

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.7	1.7	.5	.1	.0						6.3	6.3
NNE	.2	.5	.5	.2								1.4	6.9
NE	.3	.1	.3									.8	5.5
ENE	.1	.0										.1	3.0
E	.4	.1										.5	2.9
ESE	.5	.3	.2		.0							1.1	5.3
SE	2.5	3.7	1.9	.3								8.4	5.3
SSE	1.8	4.1	3.2	1.4	.1	.0						10.7	6.9
S	1.7	2.1	3.2	1.1	.2							8.5	7.3
SSW	.9	.8	1.4	.3	.2	.1	.0					3.8	8.2
SW	.4	.6	.7	.3	.0							2.0	7.1
WSW	.3	.4	.6	.2								1.5	7.3
W	.5	.5	1.6	.4	.1							3.2	7.9
WNW	.5	.9	.8	.5	.1							2.8	7.5
NW	1.4	1.8	2.3	1.0	.1							6.7	7.1
NNW	1.7	2.3	2.5	1.4	.3							8.1	7.5
VARBL													
CALM												34.0	
	14.5	21.1	20.9	7.6	1.4	.2	.0					100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 2069

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56	%	MEAN WIND SPEED
N	1.7	2.4	1.9	.8	.0							6.9	6.3
NNE	.3	.4	.5	.1	.0							1.4	6.8
NE	.4	.2	.0									.7	3.9
ENE	.3	.2	.1									.6	4.1
E	.2	.1										.3	3.2
ESE	.5	.6	.1	.0								1.3	4.7
SE	2.3	2.9	2.0	.4								7.7	5.2
SSE	1.6	4.2	3.3	1.2	.2							10.3	6.9
S	.9	2.6	2.3	1.3	.3							7.4	7.7
SSW	.4	.8	1.3	.3	.4	.0						3.2	8.9
SW	.5	.6	.9	.2	.0							2.2	6.8
WSW	.1	.3	.6	.6	.0							1.7	9.5
W	.9	1.4	1.0	.4	.2							4.0	7.2
WNW	.4	1.1	.8	.5	.1							2.9	7.7
NW	1.0	2.0	2.2	.9	.2	.0						6.4	7.5
NNW	1.4	1.9	2.8	1.2	.1	.0						7.4	7.4
VARBL													
CALM												35.3	
	13.1	21.7	19.8	7.9	1.9	.1						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 2069

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	2.8	1.8	.5	.0							7.1	5.7
NNE	.3	1.0	1.1	.1								2.5	6.8
NE	.1	.1	.3	.0								.6	6.5
ENE	.1	.1	.1									.4	5.4
E	.2	.1		.0								.4	4.4
ESE	.7	.8	.2									1.7	4.3
SE	2.3	3.2	1.5	.2								7.3	5.2
SSE	3.0	3.6	3.1	1.5	.0							11.2	6.4
S	1.9	3.0	3.3	1.8	.2	.0						10.3	7.5
SSW	.4	1.1	1.1	.7	.1							3.5	7.8
SW	.6	.8	.6	.3	.1	.0						2.5	7.1
WSW	.4	.6	1.0	.3	.0							2.4	7.6
W	.8	1.0	1.3	.4	.1	.0						3.7	7.3
WNW	.6	.8	1.1	.6	.4							3.5	8.8
NW	1.7	2.1	2.0	1.1	.4	.1						7.3	7.6
NNW	1.1	1.6	2.2	1.3	.2	.1						6.4	8.0
VARBL													
CALM												29.0	
	16.3	22.8	20.8	8.9	1.8	.3						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 2070

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	3.0	2.4	1.5	.1							8.6	7.1
NNE	.5	1.6	1.2	.1	.1							3.5	6.3
NE	.3	.7	.7	.1								1.8	6.7
ENE	.4	.3	.5	.0								1.3	5.7
E	.7	.4	.1									1.2	3.8
ESE	.8	.8	.3									1.9	4.6
SE	1.4	2.0	1.0	.4	.1							5.0	5.9
SSE	1.9	2.7	2.6	1.9	.5							9.6	7.9
S	1.2	2.3	4.9	3.4	1.2	.2						13.2	9.8
SSW	.4	1.1	3.0	2.4	.6	.1						7.5	10.1
SW	.3	1.0	1.4	1.2	.2							4.2	9.1
WSW	.3	.6	1.4	.9	.3							3.6	9.4
W	.5	1.1	1.5	1.4	.3	.0						4.9	9.6
WNW	.3	.6	1.6	1.2	.6	.1						4.3	10.8
NW	.5	1.4	2.8	2.1	.8							7.6	9.9
NNW	1.0	1.4	2.8	1.4	.5							7.1	8.6
VARBL													
CALM												14.7	
	12.1	21.0	28.3	18.1	5.3	.5						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

2070



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.6	3.3	.9	.1							7.9	7.3
NNE	.3	1.4	1.3	.3	.0							3.3	7.0
NE	.7	.9	.6	.2								2.3	5.8
ENE	.2	.4										.6	4.0
E	.6	.4	.1	.0								1.2	4.1
ESE	.6	.9	.2	.1								1.8	5.1
SE	.8	1.4	.7	.1	.1							3.2	6.1
SSE	.6	1.7	2.7	2.3	.4	.0						7.8	9.2
S	.8	2.8	4.4	4.6	1.2	.3						14.2	10.3
SSW	.9	1.2	3.0	2.7	1.0							8.8	10.4
SW	.8	1.4	2.2	1.5	.2	.1						6.2	8.8
WSW	.6	.6	1.2	1.2	.3							4.0	9.5
W	.3	1.2	1.8	2.2	.4							6.0	9.9
WNW	.5	.9	2.5	1.9	.6	.1						6.6	10.1
NW	.7	1.8	2.5	2.3	.4	.1						7.9	9.6
NNW	.8	2.3	4.4	1.7	.4	.0	.0					9.8	8.8
VARBL													
CALM												8.6	
	10.2	21.7	31.1	22.2	5.3	.8						100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

2070

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	3.6	3.8	.8	.2							10.2	6.6
NNE	.9	1.3	.8	.2								3.2	5.8
NE	1.0	1.4	.4	.2								3.0	5.3
ENE	.5	.2	.1									.6	3.8
E	.4	.3	.0									.8	3.6
ESE	.5	.4	.2									1.2	4.1
SE	1.4	1.3	.7	.5								3.8	5.7
SSE	1.4	3.6	2.7	1.5	.0	.1						9.3	7.4
S	1.9	4.2	5.4	2.5	.6	.1						14.7	8.0
SSW	.4	1.4	2.5	.9	.2	.0						5.5	8.3
SW	.8	1.5	1.4	.7	.1	.0						4.6	7.4
WSW	.4	.6	.8	.4	.3	.0						2.8	9.2
W	.6	1.3	1.8	.8	.1	.0						4.7	8.0
WNW	.7	1.0	1.8	1.4	.3	.0						5.6	9.4
NW	.8	2.1	2.4	1.6	.1	.1						7.1	8.3
NNW	1.1	2.6	3.7	1.5	.2	.1						8.6	8.1
VARBL													
CALM												14.3	
	14.4	26.2	28.6	13.5	2.3	.6						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

2070

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.4	2.7	.4	.0	.0						8.6	6.2
NNE	.5	.8	.3	.1								1.7	5.4
NE	.7	.5	.3	.1								1.6	5.1
ENE	.1	.2										.3	4.0
E	.1	.2	.1									.5	4.4
ESE	.3	.2	.1									.7	4.6
SE	1.0	2.1	1.2	.5								4.8	6.0
SSE	1.7	4.0	3.7	1.1	.1							10.6	6.8
S	2.7	3.3	3.4	.7	.4	.0						10.4	6.6
SSW	1.0	1.1	1.4	.3	.2							4.0	6.8
SW	1.1	.5	.9	.1								2.7	5.3
WSW	.6	.4	1.1	.3	.0	.0						2.5	7.6
W	1.2	1.1	.9	.3	.1	.0						3.7	6.6
WNW	.8	1.1	1.0	.7	.2	.1						3.9	8.1
NW	1.4	1.7	2.7	.9	.0	.0						6.7	7.2
NNW	.8	2.5	1.8	1.0	.2	.0						6.4	7.7
VARBL													
CALM												31.0	
	15.9	23.2	21.4	6.6	1.5	.4						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

2070

1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEHART AFB  
STATION NAME

42-46,49-66  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.3	2.5	.3	.1							6.8	6.3
NNE	.5	.6	.3	.0								1.5	5.0
NE	.3	.4	.3	.1								1.2	6.3
ENE	.2	.2	.0									.5	4.0
E	.4	.0										.5	2.6
ESE	.4	.5	.3	.1								1.3	5.5
SE	2.4	2.5	1.3	.3	.0							6.6	5.2
SSE	1.6	4.5	3.6	1.3	.1	.0						11.1	6.9
S	2.0	2.9	3.3	1.0	.3	.1						9.7	7.2
SSW	.4	.4	1.3	.6	.0							2.8	8.3
SW	.5	.5	.7	.1								1.8	5.9
WSW	.3	.8	.8	.3	.1							2.3	7.8
W	.3	.7	1.0	.6	.0							2.7	8.5
WNW	.7	.7	1.1	.5	.2							3.2	7.9
NW	1.5	1.9	2.4	.7	.2							6.7	7.0
NNW	1.1	2.7	2.2	1.0	.4	.0						7.3	7.5
VAPBL													
CALM												34.2	
	14.2	21.8	21.1	6.9	1.6	.2						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

2070

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.2	2.5	1.2	.1							7.4	7.2
NNE	.6	.6	.9	.3		.1						2.5	7.3
NE	.7	.4	.4									1.5	4.7
ENE	.1	.3	.0									.5	4.5
E	.1	.3	.2									.7	5.4
ESE	.8	1.3	.2									2.3	4.2
SE	2.6	3.8	1.3	.3	.0							8.0	5.1
SSE	1.9	3.7	2.8	1.6	.4	.1						10.5	7.5
S	1.0	3.4	3.0	1.8	.3	.1						10.2	7.8
SSW	.6	1.2	1.2	.5	.2	.1						3.8	8.4
SW	.4	.6	.9	.4	.0							2.3	7.4
WSW	.5	.5	.4	.4								1.8	7.2
W	.7	1.4	1.6	.7	.2							4.7	7.7
WNW	.7	.9	.4	.4	.2	.1						2.7	8.0
NW	1.2	2.2	2.0	.8	.4	.0						6.6	7.3
NNW	1.1	1.6	2.8	.9	.4							6.8	8.0
VARBL													
CALM												27.4	
	15.1	24.4	20.7	9.4	2.3	.7						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

2137

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	3.0	2.3	.7	.3							7.7	6.8
NNE	.5	.6	1.1	.5	.0							2.7	7.8
NE	.6	.5	.1	.1								1.3	4.6
ENE	.3	.5	.0	.0								.8	4.6
E	.6	.4										.9	3.3
ESE	.0	1.1	.3		.0							2.2	4.9
SE	2.4	3.4	1.4	.1	.0							7.4	5.1
SSE	1.5	3.5	2.6	1.4	.5	.1						9.5	7.6
S	1.7	2.6	3.9	1.9	.4							10.5	7.9
SSW	.5	.9	1.4	.5	.2	.0						3.6	8.3
SW	.4	.5	.7	.6	.0							2.2	7.8
WSW	.3	.3	1.0	.5	.1							2.2	8.6
W	.7	1.4	1.2	.7	.1		.0					4.1	7.5
WNW	.6	.8	.9	.7	.2							3.1	8.2
NW	1.3	2.5	1.5	1.0	.2		.0					6.5	7.1
NNW	.9	1.4	2.8	1.2	.2	.1						6.6	8.6
VARBL													
CALM												28.4	
	14.6	23.2	21.1	9.9	2.4	.3	.1					100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	3.1	2.3	.8	.1	.0						7.6	7.0
NNE	.6	1.2	.9	.5								3.2	6.6
NE	.2	.9	.2	.0								1.4	5.4
ENE	.2	.4	.2									.8	5.2
E	.5	.7	.0	.0								1.3	4.4
ESE	.8	.8	.2	.0								1.9	4.5
SE	2.4	3.3	1.9	.2	.2							7.9	5.5
SSE	2.1	4.4	3.2	1.2	.4	.1						11.5	7.1
S	1.4	2.9	3.6	1.9	.1							9.8	7.8
SSW	.6	.9	1.0	.6	.2	.1						3.4	8.1
SW	.7	.7	1.5	.4	.1	.0						3.5	7.8
WSW	.1	.8	.5	.4	.1							2.0	8.0
W	.4	1.4	.4	.8	.2							3.6	8.1
WNW	.5	.8	1.1	.6	.0	.1						3.2	8.2
NW	1.4	2.4	2.0	.9	.1							6.9	6.8
NNW	.8	1.7	3.9	1.0	.2	.1						6.8	8.1
VARBL													
CALM												25.5	
	13.9	26.3	22.6	9.4	1.7	.5						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.6	3.1	.8	.2	.1						8.2	7.2
NNE	.6	1.2	1.8	.7								4.3	7.4
NE	.4	1.3	.9	.1								2.7	6.0
ENE	.2	.7	.2	.1								1.3	5.7
E	.5	.7	.2									1.4	4.5
ESE	.8	1.0	.4	.0								2.3	4.6
SE	1.4	2.5	1.2	.0	.0							5.2	5.2
SSE	1.5	3.6	3.3	1.8	.8	.1	.0					11.1	8.3
S	1.0	3.4	5.8	2.4	.9	.0						13.5	8.9
SSW	.7	.9	2.8	1.9	.4		.0					6.7	9.8
SW	.5	.8	1.5	1.0	.6	.1						4.5	9.9
WSW	.5	.6	1.8	.7	.4	.0						4.1	9.6
W	.5	.8	1.5	1.3								4.2	8.8
WNW	.3	1.0	1.6	1.4	.4	.0						4.9	10.0
NW	1.0	1.5	2.6	1.6	.1	.0						7.0	8.2
NNW	.6	1.9	2.0	1.6	.5	.0						6.6	9.1
VARBL													
CALM												12.2	
	11.9	24.4	30.8	15.6	4.5	.6	.1					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 2139



1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	2.8	1.5	.2	.0						8.3	8.0
NNE	.4	1.5	1.3	.5								3.8	7.0
NE	.7	.8	.9	.1								2.6	6.3
ENE	.4	.7	.3	.1								1.5	5.5
E	.8	.3	.1									1.3	3.6
ESE	.8	.7	.3									1.8	4.7
SE	1.2	1.5	.9	.1		.0						3.8	5.5
SSE	.5	3.4	3.2	1.9	.8	.2						10.1	8.8
S	.9	2.6	5.0	3.4	.8	.2						12.9	9.4
SSW	.5	1.2	2.9	2.6	.6	.2						8.0	10.6
SW	.5	1.6	2.7	1.6	.6	.1						7.2	9.4
WSW	.1	1.0	2.5	1.4	.4	.1						5.5	10.1
W	.6	1.3	2.5	1.7	.2							6.3	8.9
WNW	.5	.8	1.9	1.3	.4							4.8	9.7
NW	.9	1.4	2.4	1.9	.4	.0						7.0	8.8
NNW	.6	1.7	2.8	1.8	.3	.1						7.3	8.9
VARBL													
CALM												7.8	
	10.6	23.1	32.7	20.1	4.7	1.1						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

2133

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	3.5	2.8	1.0	.2	.1						9.6	6.8
NNE	1.1	1.4	1.4	.1		.0						4.1	5.9
NE	.8	1.0	.7	.1	.0							2.8	5.8
ENE	.3	.3	.2	.0								.9	5.3
E	.6	.3	.2									1.0	4.0
ESE	.7	.7	.1									1.4	3.8
SE	1.7	2.5	1.2	.1	.1							5.7	5.4
SSE	.9	4.3	3.5	1.6	.3	.2						10.8	7.8
S	1.2	3.8	4.4	2.0	.4	.0						11.9	8.0
SSW	.7	2.1	2.3	1.3	.2	.0						6.6	8.0
SW	.9	1.5	1.4	1.1	.2							5.2	8.0
WSW	.6	1.4	1.9	1.2	.1	.0						5.2	8.1
W	.4	1.5	2.0	.8	.2	.1	.0					5.0	8.4
WNW	.2	.8	1.5	.9		.1						3.6	9.2
NW	.8	2.1	2.8	1.1	.2	.0						7.1	8.0
NNW	.9	1.8	2.5	1.9	.5							7.6	8.8
VARBL													
CALM												11.5	
	13.9	28.9	29.0	13.4	2.5	.7	.0					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.7	2.3	.9	.1	.0						7.7	7.0
NNE	.6	1.3	1.2	.1	.1							3.3	6.3
NE	.7	.7	.6	.1			.0					2.1	6.1
ENE	.4	.2	.0									.7	3.6
E	.5	.3	.1									.9	3.8
ESE	.3	.7	.5	.0								1.5	6.1
SE	1.4	2.0	1.3	.1	.0							5.0	5.5
SSE	1.7	4.1	3.8	1.2	.3	.0						11.1	7.2
S	2.1	4.7	3.7	1.1	.2	.0						11.8	6.6
SSW	.5	1.4	1.4	.2	.1							3.6	6.9
SW	1.2	.9	1.1	.6	.2							4.1	7.0
WSW	.6	.6	.6	.3	.0	.0						2.2	7.1
W	1.1	1.4	1.1	.7	.4	.0						4.8	7.8
WNW	.6	.7	.7	.5	.2	.1						2.9	8.4
NW	1.1	1.6	2.4	1.0	.1							6.1	7.3
NNW	1.1	1.7	3.3	1.4	.2							7.7	8.0
VARBL													
CALM												24.5	
	15.3	25.1	24.1	8.3	2.2	.3	.0					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13827  
STATION

SHYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.9	2.2	1.2	.2							8.1	6.9
NNE	.7	.8	.6	.4	.0							2.5	6.8
NE	.4	.5	.6	.0								1.5	5.9
ENE	.3	.2	.1									.6	4.2
E	.3	.2	.1									.6	4.5
ESE	.4	1.1	.2	.0								1.7	4.7
SE	1.7	2.3	1.5	.3	.0							5.8	5.7
SSE	1.6	4.1	3.6	1.8	.4							11.6	7.5
S	1.5	3.2	3.4	2.1	.6							10.8	8.0
SSW	.8	.9	1.4	.2	.1	.0						3.5	7.1
SW	.5	.6	1.6	.5		.0						3.3	7.5
WSW	.5	.8	.7	.5	.1							2.6	7.4
W	.7	1.3	1.3	.7	.2							4.2	7.6
WNW	.5	.9	.7	.7	.2	.0	.0					3.0	8.9
NW	.9	1.7	2.0	1.2	.4							6.3	8.1
NNW	.7	1.7	2.8	1.4	.0	.0						6.6	8.1
VARBL													
CALM												27.3	
	13.1	23.2	22.9	10.9	2.4	.2	.0					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

2138

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-47,49-66  
YEARS

ALL  
MONTH

INSTRUMENT

ALL

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,  
CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.9	3.2	4.3	1.8	.3	.1						11.7	7.6
NNE	.8	1.5	1.5	.5	.1	.0						4.4	6.8
NE	.7	.9	.7	.2	.0	.0	.0					2.5	5.9
ENE	.4	.5	.2	.1	.0							1.1	5.3
E	.6	.6	.3	.0	.0							1.6	4.8
ESE	.8	.7	.4	.1	.0							2.0	4.9
SE	1.6	1.6	1.0	.2	.1	.0						4.5	5.5
SSE	1.2	1.9	2.1	1.0	.3	.1						6.6	7.8
S	1.1	1.8	2.5	1.0	.2	.0						6.7	7.8
SSW	.4	.8	1.1	.6	.1	.0	.0					3.0	8.3
SW	.5	.7	.8	.4	.1	.0						2.6	7.4
WSW	.3	.6	.7	.5	.1	.1						2.2	8.5
W	.7	1.1	1.4	1.2	.3	.0		.0				4.6	8.9
WNW	.5	1.2	2.1	1.5	.5	.1	.0					5.9	9.6
NW	1.2	2.8	3.7	2.4	.5	.1	.0	.0				10.8	8.7
NNW	.9	2.6	4.1	2.4	.6	.1						10.7	8.9
VARBL													
CALM												19.1	
	13.7	22.5	27.0	13.8	3.2	.6	.0	.0				100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

19171

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART D

## CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 1800																
≥ 1500					91.0											92.6
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500										97.4						98.1
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but < 3 miles; or ceiling  $\geq 500$  feet, but < 1500 feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28821

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEHART AFB

42-47,49-66

ALL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	44.2	47.4	48.7	49.8	50.6	51.7	51.0	51.2	51.2	51.3	51.4	51.4	51.5	51.5	51.5	51.7
IV 18000	44.2	54.6	56.5	57.8	58.6	58.8	59.2	59.3	59.4	59.5	59.6	59.6	59.7	59.7	59.7	59.9
IV 16000	40.2	55.4	56.9	58.2	59.1	59.2	59.5	59.7	59.7	59.9	60.0	60.0	60.1	60.1	60.1	60.3
IV 14000	41.1	56.3	58.2	59.5	60.4	61.6	61.9	61.1	61.1	61.3	61.4	61.4	61.5	61.5	61.5	61.7
IV 12000	42.3	58.5	61.5	61.8	62.7	62.9	63.3	63.5	63.5	63.7	63.7	63.7	63.8	63.8	63.9	64.1
IV 10000	43.9	61.6	62.7	64.2	65.1	65.3	65.7	65.9	65.9	66.1	66.1	66.1	66.2	66.2	66.3	66.4
IV 9000	44.5	61.6	63.8	65.2	66.2	66.4	66.8	67.1	67.1	67.2	67.2	67.2	67.3	67.3	67.4	67.5
IV 8000	45.6	63.6	65.8	67.3	68.3	68.5	68.9	69.1	69.1	69.3	69.4	69.4	69.5	69.5	69.6	69.7
IV 7000	46.6	65.3	67.7	69.2	70.3	71.5	71.9	71.1	71.2	71.3	71.4	71.4	71.5	71.5	71.6	71.7
IV 6000	47.2	66.5	69.3	71.6	71.7	71.9	72.3	72.6	72.6	72.8	72.8	72.9	72.9	73.0	73.0	73.2
IV 5000	48.4	68.7	71.3	73.1	74.2	74.4	74.9	75.1	75.1	75.3	75.4	75.4	75.5	75.5	75.6	75.7
IV 4500	49.1	69.8	72.5	74.3	75.5	75.7	76.2	76.4	76.5	76.7	76.7	76.7	76.8	76.8	76.9	77.1
IV 4000	50.1	71.7	74.5	76.3	77.6	77.8	78.3	78.6	78.6	78.8	78.9	78.9	79.0	79.0	79.1	79.2
IV 3500	51.1	73.3	76.1	78.1	79.4	79.6	80.2	80.4	80.5	80.7	80.8	80.8	80.9	80.9	80.9	81.1
IV 3000	52.3	75.2	78.2	80.3	81.7	81.9	82.5	82.8	82.8	83.1	83.1	83.1	83.2	83.2	83.3	83.4
IV 2500	53.1	77.2	80.3	82.5	84.0	84.3	84.9	85.2	85.2	85.4	85.5	85.5	85.6	85.6	85.7	85.8
IV 2000	54.1	79.4	82.8	85.2	86.8	87.1	87.8	88.1	88.1	88.4	88.5	88.5	88.6	88.6	88.7	88.8
IV 1800	54.2	81.0	83.5	85.9	87.5	87.8	88.5	88.9	88.9	89.2	89.3	89.3	89.4	89.4	89.5	89.6
IV 1500	54.6	81.3	85.0	87.6	89.4	89.7	90.5	90.9	90.9	91.2	91.3	91.3	91.4	91.4	91.5	91.6
IV 1200	54.8	82.4	86.2	89.0	91.1	91.4	92.3	92.7	92.8	93.1	93.2	93.2	93.3	93.3	93.4	93.6
IV 1000	54.9	82.9	86.9	89.9	92.1	92.5	93.5	93.9	94.0	94.3	94.5	94.5	94.6	94.6	94.7	94.8
IV 900	55.1	83.2	87.2	90.3	92.6	93.0	94.1	94.5	94.6	95.0	95.1	95.1	95.2	95.2	95.3	95.5
IV 800	55.1	83.4	87.5	90.7	93.1	93.6	94.7	95.2	95.3	95.7	95.8	95.9	96.0	96.0	96.1	96.2
IV 700	55.1	83.5	87.8	91.4	93.5	94.0	95.2	95.8	95.9	96.3	96.4	96.5	96.6	96.6	96.7	96.9
IV 600	55.1	83.7	88.0	91.3	94.0	94.5	95.8	96.4	96.5	97.0	97.2	97.2	97.4	97.4	97.5	97.6
IV 500	55.1	83.8	88.1	91.5	94.3	94.8	96.3	97.0	97.1	97.7	97.9	97.9	98.1	98.1	98.2	98.4
IV 400	55.1	83.8	88.2	91.6	94.5	95.1	96.6	97.4	97.5	98.1	98.4	98.4	98.6	98.6	98.7	98.9
IV 300	55.1	83.8	88.2	91.7	94.6	95.2	96.8	97.6	97.7	98.5	98.7	98.8	99.0	99.0	99.1	99.3
IV 200	55.1	83.8	88.2	91.7	94.6	95.2	96.9	97.7	97.8	98.6	98.9	98.9	99.2	99.2	99.4	99.6
IV 100	55.1	83.8	88.2	91.7	94.6	95.2	96.9	97.7	97.8	98.7	99.0	99.0	99.3	99.3	99.5	99.8
IV 0	55.1	83.8	88.2	91.7	94.6	95.2	96.9	97.7	97.8	98.7	99.0	99.0	99.3	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 195145

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHVILLE, N. C. 28831

## CEILING VERSUS VISIBILITY

13927  
STATION

SMYRNA TENNESSEE/SEAWAY AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	11.6	32.1	33.7	34.8	35.6	35.7	36.1	36.3	36.3	36.5	36.6	36.6	36.7	36.7	36.8	36.9
IV 20000	25.2	37.4	39.3	41.8	41.7	42.0	42.5	42.8	42.8	43.0	43.1	43.1	43.2	43.2	43.3	43.5
IV 18000	25.3	37.7	39.5	41.7	42.0	42.3	42.7	43.0	43.0	43.3	43.4	43.4	43.5	43.5	43.6	43.7
IV 16000	25.5	37.9	39.8	41.3	42.3	42.5	43.0	43.3	43.3	43.5	43.6	43.6	43.8	43.8	43.9	44.0
IV 14000	25.9	38.8	40.7	42.2	43.2	43.5	44.0	44.3	44.3	44.5	44.6	44.6	44.8	44.8	44.9	45.0
IV 12000	26.8	41.1	42.1	43.9	44.9	45.2	45.6	46.0	46.0	46.2	46.3	46.3	46.4	46.5	46.6	46.7
IV 10000	27.8	41.9	44.0	45.9	46.9	47.2	47.7	48.0	48.0	48.3	48.4	48.4	48.5	48.5	48.6	48.7
IV 9000	28.3	42.8	45.0	46.9	48.0	48.3	48.8	49.1	49.1	49.4	49.5	49.5	49.6	49.6	49.7	49.9
IV 8000	29.1	44.4	46.8	48.7	49.9	50.2	50.8	51.1	51.2	51.4	51.5	51.5	51.6	51.7	51.7	51.9
IV 7000	29.8	45.8	48.3	50.4	51.7	52.1	52.7	53.0	53.0	53.3	53.4	53.4	53.5	53.6	53.6	53.8
IV 6000	30.3	46.9	49.5	51.7	53.1	53.4	54.0	54.4	54.4	54.7	54.8	54.8	55.0	55.0	55.1	55.2
IV 5000	31.1	48.8	51.5	53.8	55.4	55.7	56.4	56.8	56.8	57.1	57.2	57.2	57.3	57.3	57.4	57.6
IV 4500	31.5	49.9	52.8	55.2	56.7	57.1	57.8	58.2	58.2	58.5	58.6	58.6	58.7	58.7	58.8	59.0
IV 4000	32.1	51.2	54.2	56.8	58.4	58.8	59.5	60.0	60.0	60.3	60.4	60.4	60.5	60.6	60.7	60.8
IV 3500	32.8	52.7	55.9	58.5	60.3	60.7	61.5	62.0	62.0	62.3	62.4	62.4	62.6	62.6	62.7	62.8
IV 3000	33.8	54.7	58.1	60.8	62.7	63.1	64.1	64.6	64.6	64.9	65.0	65.0	65.2	65.2	65.3	65.4
IV 2500	35.1	57.6	61.2	64.2	66.2	66.6	67.6	68.1	68.1	68.5	68.6	68.6	68.8	68.8	68.9	69.0
IV 2000	36.2	61.7	65.7	69.0	71.4	71.9	73.0	73.6	73.7	74.2	74.3	74.4	74.5	74.5	74.6	74.8
IV 1800	36.6	62.7	66.7	70.2	72.7	73.2	74.4	75.0	75.1	75.6	75.8	75.8	75.9	76.0	76.1	76.2
IV 1500	37.2	65.2	69.6	73.3	76.2	76.8	78.1	78.8	78.9	79.6	79.8	79.8	80.0	80.0	80.1	80.3
IV 1200	37.4	67.1	72.0	76.1	79.5	80.1	81.7	82.5	82.6	83.4	83.6	83.6	83.8	83.8	83.9	84.1
IV 1000	37.6	68.0	73.2	77.6	81.5	82.3	84.2	85.1	85.1	86.0	86.2	86.3	86.5	86.5	86.6	86.8
IV 900	37.6	68.5	73.9	78.5	82.7	83.5	85.6	86.5	86.6	87.5	87.8	87.9	88.1	88.1	88.2	88.4
IV 800	37.6	68.9	74.5	79.3	83.8	84.8	87.3	88.3	88.4	89.4	89.7	89.7	89.9	89.9	90.1	90.3
IV 700	37.6	69.2	75.0	80.1	84.9	85.9	88.7	89.8	89.9	90.9	91.3	91.3	91.5	91.5	91.7	91.9
IV 600	37.6	69.4	75.4	80.8	85.9	86.9	90.0	91.3	91.4	92.6	93.0	93.1	93.3	93.3	93.5	93.7
IV 500	37.7	69.5	75.6	81.1	86.5	87.7	91.2	92.7	92.8	94.2	94.8	94.9	95.2	95.2	95.5	95.7
IV 400	37.7	69.6	75.7	81.4	87.0	88.2	91.9	93.6	93.7	95.3	96.0	96.1	96.5	96.5	96.8	97.0
IV 300	37.7	69.6	75.8	81.5	87.2	88.5	92.5	94.3	94.6	96.4	97.2	97.3	97.9	97.9	98.2	98.4
IV 200	37.7	69.6	75.8	81.5	87.3	88.6	92.7	94.6	94.8	96.8	97.7	97.8	98.5	98.5	98.8	99.1
IV 100	37.7	69.6	75.8	81.5	87.3	88.6	92.7	94.6	94.9	97.0	98.6	98.1	98.8	98.9	99.2	99.6
IV 0	37.7	69.6	75.8	81.5	87.3	88.6	92.7	94.6	94.9	97.0	98.0	98.1	98.8	98.9	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 17059

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SPYRNA TENNESSEE/SEWART AFB

43-45,47,49-66 YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	24.8	36.6	38.2	39.5	40.3	41.4	40.8	41.0	41.0	41.2	41.3	41.3	41.3	41.3	41.3	41.4
IV 18000	28.8	42.7	44.6	46.1	47.1	47.2	47.7	48.0	48.0	48.2	48.3	48.3	48.3	48.3	48.4	48.4
IV 16000	28.9	42.8	44.8	46.3	47.3	47.4	47.9	48.2	48.2	48.4	48.5	48.5	48.5	48.5	48.6	48.6
IV 14000	29.0	43.0	45.0	46.5	47.5	47.6	48.1	48.4	48.4	48.6	48.7	48.7	48.7	48.7	48.8	48.8
IV 12000	29.8	44.2	46.2	47.8	48.8	48.9	49.4	49.7	49.7	49.9	50.0	50.0	50.1	50.1	50.1	50.1
IV 10000	29.7	46.0	48.1	49.7	50.8	50.9	51.4	51.7	51.7	51.9	52.0	52.0	52.0	52.0	52.1	52.1
IV 9000	31.8	48.1	50.2	52.0	53.1	53.2	53.7	54.0	54.1	54.3	54.3	54.3	54.4	54.4	54.4	54.5
IV 8000	32.4	49.1	51.3	53.1	54.2	54.3	54.9	55.2	55.3	55.5	55.5	55.5	55.6	55.6	55.6	55.7
IV 7000	33.5	51.2	53.5	55.4	56.6	56.8	57.4	57.7	57.7	57.9	58.0	58.0	58.1	58.1	58.1	58.2
IV 6000	34.4	53.0	55.5	57.5	58.7	58.9	59.5	59.8	59.9	60.1	60.2	60.2	60.2	60.2	60.2	60.3
IV 5000	35.1	54.4	57.0	59.1	60.4	60.6	61.2	61.6	61.6	61.8	61.9	61.9	62.0	62.0	62.0	62.0
IV 4500	35.9	56.1	58.9	61.2	62.6	62.8	63.5	63.8	63.9	64.1	64.2	64.2	64.2	64.2	64.3	64.3
IV 4000	36.4	57.3	60.2	62.6	64.1	64.3	65.0	65.4	65.4	65.7	65.8	65.8	65.8	65.8	65.8	65.9
IV 3500	37.6	60.4	63.6	66.2	67.8	68.0	68.8	69.2	69.2	69.5	69.6	69.6	69.7	69.7	69.7	69.8
IV 3000	38.4	62.3	65.6	68.5	70.3	70.5	71.3	71.7	71.8	72.1	72.2	72.2	72.2	72.2	72.3	72.4
IV 2500	39.5	65.0	68.6	71.6	73.6	73.9	74.8	75.2	75.2	75.6	75.7	75.7	75.7	75.7	75.8	75.8
IV 2000	40.7	68.1	72.1	75.5	77.8	78.1	79.2	79.7	79.7	80.1	80.2	80.2	80.2	80.3	80.3	80.4
IV 1800	40.9	69.0	73.1	76.6	79.0	79.4	80.5	81.0	81.1	81.4	81.6	81.6	81.6	81.6	81.7	81.7
IV 1500	41.4	70.7	75.1	78.9	81.6	82.0	83.3	83.8	83.9	84.3	84.4	84.4	84.5	84.5	84.5	84.6
IV 1200	41.7	72.6	77.4	81.6	84.7	85.2	86.6	87.3	87.3	87.8	87.9	87.9	88.0	88.0	88.0	88.1
IV 1000	42.0	73.6	78.5	83.0	86.4	87.0	88.5	89.2	89.3	89.8	90.0	90.0	90.0	90.0	90.1	90.2
IV 900	42.1	74.1	79.2	83.9	87.5	88.0	89.7	90.5	90.6	91.2	91.4	91.4	91.4	91.4	91.5	91.6
IV 800	42.1	74.5	79.8	84.6	88.4	89.0	90.9	91.8	91.9	92.5	92.7	92.7	92.8	92.8	92.8	92.9
IV 700	42.2	74.8	80.2	85.2	89.2	89.9	91.9	92.9	93.0	93.6	93.8	93.9	93.9	93.9	94.0	94.1
IV 600	42.2	75.0	80.6	85.7	90.0	90.8	93.0	94.2	94.3	95.0	95.3	95.3	95.4	95.4	95.5	95.6
IV 500	42.2	75.1	80.9	86.1	90.5	91.4	93.9	95.2	95.3	96.2	96.5	96.5	96.7	96.7	96.8	96.8
IV 400	42.2	75.2	81.0	86.3	90.9	91.8	94.5	96.0	96.1	97.1	97.5	97.5	97.7	97.8	97.9	97.9
IV 300	42.2	75.2	81.0	86.4	91.1	92.0	94.8	96.3	96.5	97.7	98.1	98.2	98.5	98.6	98.7	98.8
IV 200	42.2	75.2	81.0	86.4	91.1	92.0	94.9	96.5	96.7	97.9	98.5	98.5	98.9	99.1	99.2	99.3
IV 100	42.2	75.2	81.0	86.4	91.1	92.0	94.9	96.5	96.7	98.0	98.6	98.6	99.1	99.2	99.4	99.6
IV 0	42.2	75.2	81.0	86.4	91.1	92.1	94.9	96.5	96.7	98.0	98.6	98.6	99.2	99.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 14897

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SKYRNA TENNESSEE/SEWART AFB  
STATION STATION NAME

43-45, 47, 49-66  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	40.9	40.9	42.0	42.6	42.9	43.0	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.3	43.3
IV 20000	36.6	47.6	49.0	49.8	50.2	50.3	50.4	50.5	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.7
IV 18000	36.3	48.1	49.5	50.3	50.7	50.8	50.9	51.0	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.2
IV 16000	36.6	48.6	50.0	50.8	51.2	51.3	51.4	51.5	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.7
IV 14000	37.7	49.5	50.9	51.7	52.2	52.2	52.4	52.4	52.4	52.5	52.5	52.5	52.6	52.6	52.6	52.7
IV 12000	38.2	51.1	52.6	53.4	53.9	53.9	54.1	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.3	54.4
IV 10000	39.3	53.0	54.5	55.4	55.9	56.0	56.1	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.4
IV 9000	39.8	53.9	55.5	56.4	56.9	56.9	57.1	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.4
IV 8000	41.1	56.2	57.9	58.8	59.3	59.4	59.6	59.7	59.7	59.7	59.7	59.7	59.8	59.8	59.8	59.9
IV 7000	42.5	58.7	60.5	61.5	62.0	62.1	62.3	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.6	62.7
IV 6000	43.5	60.5	62.4	63.6	64.2	64.3	64.5	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.8	64.9
IV 5000	44.6	62.8	64.8	66.2	66.9	67.0	67.2	67.3	67.4	67.4	67.5	67.5	67.5	67.5	67.6	67.6
IV 4500	45.5	64.4	66.6	68.0	68.7	68.8	69.1	69.2	69.2	69.3	69.4	69.4	69.4	69.4	69.4	69.5
IV 4000	46.8	66.7	69.0	70.5	71.3	71.5	71.8	71.9	71.9	72.0	72.0	72.0	72.1	72.1	72.1	72.2
IV 3500	47.9	68.7	71.2	72.7	73.7	73.8	74.2	74.3	74.3	74.4	74.5	74.5	74.5	74.5	74.5	74.6
IV 3000	49.1	71.2	73.8	75.5	76.5	76.7	77.1	77.2	77.2	77.3	77.4	77.4	77.4	77.4	77.5	77.6
IV 2500	50.4	74.2	77.1	78.9	80.0	80.3	80.6	80.8	80.8	80.9	81.0	81.0	81.0	81.0	81.0	81.1
IV 2000	51.5	77.6	80.9	82.8	84.2	84.5	84.9	85.2	85.2	85.3	85.4	85.4	85.4	85.4	85.5	85.6
IV 1800	51.8	78.4	81.9	84.0	85.5	85.7	86.2	86.4	86.4	86.6	86.6	86.6	86.7	86.7	86.7	86.8
IV 1500	52.3	80.2	84.0	86.2	88.1	88.2	88.8	89.0	89.0	89.2	89.3	89.3	89.3	89.3	89.4	89.5
IV 1200	52.6	81.8	85.9	88.4	90.4	90.8	91.5	91.8	91.8	92.1	92.1	92.1	92.2	92.2	92.2	92.3
IV 1000	52.8	82.6	87.0	89.7	91.8	92.2	93.1	93.5	93.5	93.8	93.8	93.8	93.9	93.9	94.0	94.1
IV 900	52.8	82.9	87.3	90.1	92.4	92.8	93.8	94.2	94.2	94.5	94.6	94.6	94.7	94.7	94.7	94.8
IV 800	52.8	83.1	87.6	90.5	92.9	93.3	94.5	95.0	95.0	95.4	95.4	95.4	95.5	95.5	95.6	95.7
IV 700	52.8	83.2	87.9	90.9	93.4	93.9	95.2	95.8	95.9	96.3	96.4	96.4	96.5	96.5	96.5	96.6
IV 600	52.8	83.5	88.2	91.3	93.9	94.4	95.9	96.6	96.6	97.1	97.2	97.2	97.4	97.4	97.5	97.6
IV 500	52.8	83.5	88.3	91.6	94.3	94.9	96.6	97.4	97.5	98.1	98.2	98.2	98.5	98.5	98.6	98.6
IV 400	52.9	83.6	88.4	91.6	94.5	95.1	96.8	97.7	97.8	98.5	98.7	98.7	99.0	99.0	99.1	99.2
IV 300	52.9	83.6	88.4	91.7	94.6	95.2	97.0	97.9	98.0	98.8	99.1	99.1	99.4	99.4	99.5	99.6
IV 200	52.9	83.6	88.4	91.7	94.6	95.2	97.1	98.0	98.1	99.0	99.2	99.2	99.6	99.6	99.7	99.8
IV 100	52.9	83.6	88.4	91.7	94.6	95.2	97.1	98.0	98.1	99.0	99.3	99.3	99.6	99.6	99.8	99.9
IV 0	52.9	83.6	88.4	91.7	94.6	95.2	97.1	98.0	98.2	99.0	99.3	99.3	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 16352

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SPYRN3 TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	38.8 46.2	46.1 54.9	46.7 55.6	47.2 56.0	47.2 56.2	47.2 56.2	47.3 56.3	47.3 56.4	47.4 56.4	47.4 56.4	47.4 56.5	47.4 56.5	47.5 56.5	47.5 56.5	47.5 56.5	47.5 56.5
IVIV 18000 16000	46.6 47.1	55.3 55.9	55.9 56.6	56.3 57.0	56.6 57.2	56.6 57.2	56.7 57.3	56.7 57.4	56.7 57.4	56.8 57.4	56.8 57.5	56.8 57.5	56.8 57.5	56.8 57.5	56.9 57.5	56.9 57.5
IVIV 14000 12000	48.1 49.7	57.1 59.1	57.8 59.8	58.2 60.2	58.4 60.5	58.5 60.5	58.6 60.6	58.6 60.7	58.6 60.7	58.7 60.8	58.7 60.8	58.7 60.8	58.7 60.8	58.7 60.8	58.7 60.8	58.8 60.8
IVIV 10000 9000	51.8 52.8	61.8 63.2	62.5 63.9	63.0 64.3	63.2 64.6	63.3 64.6	63.4 64.7	63.4 64.8	63.4 64.8	63.5 64.9	63.5 64.9	63.5 64.9	63.5 64.9	63.5 64.9	63.5 64.9	63.6 64.9
IVIV 8000 7000	54.3 56.1	65.5 68.4	66.3 69.4	66.8 70.0	67.1 70.3	67.1 70.4	67.2 70.5	67.3 70.5	67.3 70.6	67.4 70.6	67.4 70.6	67.4 70.6	67.4 70.7	67.4 70.7	67.4 70.7	67.4 70.7
IVIV 6000 5000	57.2 59.3	71.3 73.7	71.4 74.9	71.9 75.7	72.4 76.1	72.4 76.2	72.5 76.3	72.6 76.4	72.6 76.4	72.7 76.5	72.7 76.5	72.7 76.5	72.7 76.5	72.7 76.5	72.7 76.5	72.8 76.5
IVIV 4500 4000	60.4 62.3	75.3 78.0	76.6 79.3	77.4 80.2	77.9 80.8	78.0 80.8	78.1 81.0	78.2 81.1	78.2 81.1	78.3 81.2	78.3 81.2	78.3 81.2	78.3 81.2	78.3 81.2	78.3 81.2	78.4 81.3
IVIV 3500 3000	63.8 65.3	80.1 82.5	81.6 84.2	82.6 85.2	83.2 85.9	83.2 86.0	83.4 86.2	83.5 86.3	83.5 86.3	83.6 86.4	83.6 86.4	83.6 86.4	83.6 86.4	83.6 86.4	83.6 86.5	83.7 86.5
IVIV 2500 2000	66.4 67.5	84.6 86.8	86.4 88.9	87.5 90.2	88.3 91.0	88.3 91.1	88.6 91.4	88.7 91.5	88.7 91.5	88.8 91.7	88.8 91.7	88.8 91.7	88.8 91.7	88.8 91.7	88.9 91.7	88.9 91.8
IVIV 1800 1500	67.7 68.2	87.4 88.8	89.5 91.1	90.8 92.5	91.7 93.5	91.8 93.6	92.1 94.0	92.2 94.1	92.2 94.1	92.4 94.3	92.4 94.3	92.4 94.3	92.4 94.3	92.4 94.3	92.4 94.3	92.5 94.4
IVIV 1200 1000	68.5 68.5	89.6 90.0	92.1 92.5	93.7 94.2	94.8 95.5	95.0 95.7	95.4 96.2	95.5 96.3	95.6 96.3	95.7 96.5	95.7 96.5	95.7 96.5	95.8 96.5	95.8 96.5	95.8 96.6	95.9 96.6
IVIV 900 800	68.6 68.6	90.2 90.3	92.1 92.9	94.6 94.8	95.9 96.3	96.1 96.5	96.6 97.1	96.8 97.2	96.8 97.3	97.0 97.5	97.0 97.5	97.0 97.5	97.0 97.5	97.0 97.5	97.1 97.6	97.1 97.7
IVIV 700 600	68.6 68.7	90.1 90.6	93.1 93.3	95.1 95.4	96.6 97.0	96.9 97.3	97.4 98.0	97.7 98.2	97.7 98.2	97.9 98.5	97.9 98.6	97.9 98.6	98.0 98.6	98.0 98.6	98.0 98.7	98.1 98.7
IVIV 500 400	68.7 68.7	90.7 90.7	93.4 93.5	95.6 95.8	97.3 97.6	97.6 97.9	98.4 98.7	98.6 99.0	98.7 99.0	99.0 99.4	99.0 99.4	99.0 99.4	99.1 99.5	99.1 99.5	99.1 99.5	99.2 99.6
IVIV 300 200	68.7 68.7	90.7 90.7	93.5 93.5	95.8 95.8	97.6 97.6	97.9 97.9	98.8 98.8	99.1 99.2	99.1 99.2	99.5 99.6	99.6 99.7	99.6 99.7	99.7 99.7	99.7 99.7	99.7 99.8	99.8 99.9
IVIV 100 0	68.7 68.7	90.7 90.7	93.5 93.5	95.8 95.8	97.6 97.6	97.9 97.9	98.8 98.8	99.2 99.2	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.8 99.8	99.8 99.8	99.9 99.9	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 15840

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827

SMYRNA TENNESSEE/SEWART AFB

43-45, 47, 49-66

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING IV 20000	42.6	52.5	53.4	53.8	54.2	54.2	54.4	54.4	54.5	54.6	54.6	54.6	54.7	54.7	54.7	54.8
IV 18000	51.6	62.4	63.4	63.9	64.3	64.4	64.5	64.6	64.6	64.7	64.8	64.8	64.8	64.8	64.9	65.0
IV 16000	50.9	62.7	63.7	64.2	64.6	64.7	64.9	64.9	64.9	65.0	65.1	65.1	65.2	65.2	65.2	65.4
IV 14000	52.1	64.2	65.3	65.8	66.2	66.3	66.4	66.5	66.5	66.6	66.7	66.7	66.7	66.8	66.8	67.0
IV 12000	54.1	66.8	67.9	68.4	68.8	68.9	69.1	69.2	69.2	69.3	69.4	69.4	69.4	69.4	69.5	69.6
IV 10000	55.5	69.1	70.3	70.9	71.3	71.4	71.5	71.6	71.7	71.8	71.8	71.8	71.9	71.9	72.0	72.1
IV 9000	56.3	70.3	71.5	72.1	72.5	72.6	72.7	72.8	72.8	72.9	73.0	73.0	73.1	73.1	73.2	73.3
IV 8000	57.6	72.3	73.6	74.3	74.8	74.9	75.0	75.1	75.1	75.3	75.3	75.3	75.4	75.4	75.5	75.6
IV 7000	58.6	74.1	75.5	76.2	76.6	76.8	76.9	77.0	77.0	77.2	77.2	77.2	77.3	77.3	77.4	77.5
IV 6000	59.5	75.5	76.9	77.7	78.2	78.3	78.5	78.6	78.6	78.7	78.8	78.8	78.9	78.9	79.0	79.1
IV 5000	61.1	77.9	79.4	80.2	80.7	80.9	81.1	81.2	81.2	81.4	81.4	81.4	81.5	81.5	81.6	81.7
IV 4500	62.1	79.3	80.9	81.7	82.2	82.4	82.6	82.7	82.7	82.9	83.0	83.0	83.0	83.0	83.1	83.3
IV 4000	63.5	81.5	83.1	84.0	84.6	84.8	85.0	85.2	85.2	85.3	85.4	85.4	85.5	85.5	85.6	85.7
IV 3500	64.4	82.9	84.6	85.6	86.2	86.4	86.7	86.8	86.8	87.0	87.1	87.1	87.2	87.2	87.3	87.4
IV 3000	65.9	85.2	87.1	88.1	88.8	89.0	89.3	89.4	89.4	89.6	89.7	89.7	89.8	89.8	89.9	90.0
IV 2500	66.8	86.8	88.8	89.9	90.7	90.9	91.2	91.3	91.3	91.5	91.6	91.6	91.7	91.7	91.8	91.9
IV 2000	67.6	88.5	90.7	91.8	92.6	92.9	93.2	93.4	93.4	93.6	93.7	93.7	93.8	93.8	93.9	94.0
IV 1800	67.8	88.9	91.1	92.3	93.1	93.3	93.7	93.9	93.9	94.1	94.2	94.2	94.2	94.3	94.3	94.5
IV 1500	68.1	89.8	92.1	93.4	94.3	94.6	94.9	95.1	95.1	95.4	95.5	95.5	95.5	95.5	95.6	95.8
IV 1200	68.3	90.5	92.9	94.2	95.3	95.5	95.9	96.1	96.1	96.4	96.5	96.5	96.6	96.6	96.7	96.8
IV 1000	68.5	90.8	93.3	94.8	95.9	96.2	96.6	96.8	96.9	97.1	97.2	97.2	97.3	97.3	97.4	97.5
IV 900	68.5	90.9	93.5	95.0	96.2	96.5	97.0	97.2	97.2	97.5	97.6	97.6	97.7	97.7	97.8	97.9
IV 800	68.5	91.1	93.7	95.3	96.6	96.9	97.4	97.6	97.7	98.0	98.1	98.1	98.1	98.1	98.2	98.4
IV 700	68.5	91.2	93.8	95.4	96.8	97.1	97.6	97.9	97.9	98.2	98.3	98.3	98.4	98.4	98.5	98.6
IV 600	68.5	91.2	94.0	95.6	97.0	97.3	97.9	98.2	98.2	98.5	98.6	98.6	98.7	98.7	98.8	98.9
IV 500	68.5	91.3	94.1	95.7	97.2	97.5	98.1	98.5	98.5	98.8	98.9	98.9	99.0	99.0	99.1	99.2
IV 400	68.5	91.3	94.1	95.7	97.2	97.6	98.3	98.7	98.7	99.1	99.2	99.2	99.2	99.3	99.3	99.5
IV 300	68.5	91.3	94.1	95.8	97.3	97.6	98.4	98.7	98.8	99.2	99.3	99.3	99.4	99.4	99.5	99.7
IV 200	68.5	91.3	94.1	95.8	97.3	97.6	98.4	98.8	98.8	99.2	99.4	99.4	99.5	99.5	99.6	99.8
IV 100	68.5	91.3	94.1	95.8	97.3	97.7	98.4	98.8	98.9	99.3	99.4	99.4	99.5	99.5	99.6	99.9
IV 0	68.5	91.3	94.1	95.8	97.3	97.7	98.4	98.8	98.9	99.3	99.4	99.4	99.5	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 16363

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28803

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING IV 20000	41.7 50.5	54.6 64.8	56.0 66.3	56.9 67.3	57.8 68.3	57.9 68.4	58.1 68.6	58.2 68.7	58.2 68.7	58.3 68.8	58.3 68.8	58.3 68.8	58.4 68.9	58.4 68.9	58.4 68.9	58.5 69.0
IV 18000	50.4	65.2	66.7	67.7	68.7	68.8	69.0	69.1	69.1	69.2	69.2	69.2	69.3	69.3	69.3	69.4
IV 16000	50.7	65.5	67.1	68.1	69.0	69.2	69.4	69.5	69.5	69.5	69.6	69.6	69.6	69.7	69.7	69.7
IV 14000	51.9	67.1	68.7	69.6	70.6	70.8	71.0	71.1	71.1	71.2	71.2	71.2	71.3	71.3	71.3	71.4
IV 12000	53.5	69.4	71.0	72.1	73.1	73.3	73.5	73.6	73.6	73.7	73.7	73.7	73.8	73.8	73.8	73.9
IV 10000	55.3	72.1	73.8	75.0	76.1	76.3	76.5	76.6	76.6	76.7	76.7	76.7	76.8	76.8	76.8	76.9
IV 9000	55.9	73.2	75.0	76.1	77.3	77.4	77.7	77.8	77.8	77.9	77.9	77.9	78.0	78.0	78.0	78.1
IV 8000	57.2	75.2	77.0	78.3	79.4	79.6	79.9	80.0	80.0	80.1	80.1	80.1	80.2	80.2	80.2	80.3
IV 7000	58.1	76.6	78.5	79.8	81.0	81.2	81.5	81.6	81.6	81.7	81.7	81.7	81.8	81.8	81.8	81.9
IV 6000	58.7	77.6	79.7	81.0	82.2	82.4	82.7	82.8	82.8	82.9	83.0	83.0	83.1	83.1	83.1	83.2
IV 5000	60.5	79.8	82.0	83.4	84.7	84.9	85.3	85.4	85.4	85.5	85.6	85.6	85.7	85.7	85.7	85.7
IV 4500	53.7	80.8	83.0	84.5	85.7	86.0	86.3	86.4	86.4	86.6	86.6	86.6	86.7	86.7	86.7	86.8
IV 4000	62.3	83.1	85.4	86.9	88.2	88.4	88.8	88.9	88.9	89.0	89.1	89.1	89.2	89.2	89.2	89.3
IV 3500	63.7	84.9	87.2	88.8	90.1	90.3	90.7	90.8	90.8	91.0	91.0	91.0	91.1	91.1	91.2	91.2
IV 3000	64.5	86.5	88.9	90.5	91.9	92.1	92.5	92.6	92.7	92.8	92.9	92.9	93.0	93.0	93.0	93.1
IV 2500	65.8	87.9	90.3	92.0	93.4	93.7	94.0	94.2	94.2	94.3	94.4	94.4	94.5	94.5	94.5	94.6
IV 2000	66.4	88.9	91.5	93.1	94.6	94.8	95.2	95.4	95.4	95.6	95.6	95.6	95.7	95.7	95.8	95.8
IV 1800	66.6	89.2	91.8	93.5	95.0	95.2	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.1	96.1	96.2
IV 1500	66.9	90.2	92.7	94.4	96.0	96.2	96.6	96.8	96.8	97.0	97.0	97.0	97.2	97.2	97.2	97.3
IV 1200	67.2	90.4	93.2	95.0	96.7	96.9	97.3	97.5	97.5	97.7	97.7	97.8	97.9	97.9	97.9	98.0
IV 1000	67.3	90.7	93.5	95.4	97.1	97.4	97.8	97.9	98.0	98.1	98.2	98.2	98.3	98.3	98.4	98.4
IV 900	67.3	90.8	93.7	95.6	97.3	97.6	98.0	98.2	98.2	98.4	98.4	98.4	98.6	98.6	98.6	98.7
IV 800	67.2	90.9	93.8	95.8	97.5	97.8	98.2	98.4	98.4	98.6	98.7	98.7	98.8	98.8	98.9	98.9
IV 700	67.3	91.0	93.9	95.9	97.6	97.9	98.4	98.6	98.6	98.8	98.8	98.9	99.0	99.0	99.0	99.1
IV 600	67.4	91.0	94.0	96.3	97.8	98.1	98.6	98.8	98.8	99.0	99.1	99.1	99.2	99.2	99.3	99.3
IV 500	67.4	91.1	94.1	96.1	97.9	98.2	98.8	99.0	99.0	99.2	99.3	99.3	99.5	99.5	99.5	99.6
IV 400	67.4	91.1	94.1	96.1	97.9	98.3	98.8	99.0	99.1	99.3	99.4	99.4	99.6	99.6	99.6	99.7
IV 300	67.4	91.1	94.1	96.2	98.0	98.3	98.9	99.1	99.1	99.3	99.4	99.4	99.6	99.6	99.6	99.8
IV 200	67.4	91.1	94.1	96.2	98.0	98.3	98.9	99.1	99.2	99.4	99.5	99.5	99.7	99.7	99.7	99.9
IV 100	67.4	91.1	94.1	96.2	98.0	98.4	98.9	99.1	99.2	99.4	99.5	99.5	99.7	99.7	99.7	99.9
IV 0	67.4	91.1	94.1	96.2	98.0	98.4	98.9	99.1	99.2	99.4	99.5	99.5	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 15689

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

43-45, 49-66

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	36.7	51.8	53.9	55.1	55.9	56.1	56.5	56.6	56.6	56.8	56.8	56.9	56.9	56.9	57.0	57.1
IV 20000	45.6	63.0	65.3	66.7	67.5	67.8	68.2	68.3	68.3	68.5	68.6	68.6	68.7	68.7	68.7	68.8
IV 18000	45.8	63.2	65.6	66.9	67.7	68.0	68.4	68.5	68.5	68.7	68.8	68.8	68.9	68.9	68.9	69.0
IV 16000	46.1	63.6	66.0	67.3	68.2	68.4	68.8	68.9	69.0	69.1	69.2	69.2	69.3	69.3	69.3	69.4
IV 14000	47.3	65.2	67.6	68.9	69.8	70.1	70.5	70.6	70.6	70.8	70.9	70.9	71.0	71.0	71.0	71.1
IV 12000	49.7	68.8	71.3	72.7	73.6	73.9	74.3	74.4	74.4	74.6	74.7	74.7	74.8	74.8	74.8	74.9
IV 10000	51.7	71.7	74.4	75.8	76.8	77.0	77.4	77.6	77.6	77.8	77.9	77.9	78.0	78.0	78.0	78.1
IV 9000	52.2	72.7	75.4	76.9	77.8	78.1	78.5	78.6	78.7	78.9	78.9	79.0	79.0	79.1	79.1	79.2
IV 8000	53.1	74.4	77.2	78.7	79.7	79.9	80.3	80.5	80.5	80.7	80.8	80.8	80.9	80.9	81.0	81.0
IV 7000	53.7	75.5	78.3	79.9	80.9	81.2	81.6	81.7	81.7	82.0	82.0	82.0	82.1	82.1	82.2	82.3
IV 6000	54.2	76.4	79.3	80.9	81.9	82.1	82.5	82.7	82.7	82.9	83.0	83.0	83.1	83.1	83.2	83.2
IV 5000	55.5	78.5	81.5	83.2	84.2	84.5	84.9	85.1	85.1	85.3	85.4	85.4	85.5	85.5	85.5	85.6
IV 4500	56.1	79.3	82.4	84.1	85.2	85.4	85.9	86.0	86.0	86.3	86.3	86.3	86.4	86.4	86.5	86.6
IV 4000	57.4	81.6	84.7	86.5	87.6	87.8	88.3	88.4	88.4	88.7	88.7	88.7	88.8	88.8	88.9	89.0
IV 3500	58.6	83.3	86.4	88.2	89.3	89.6	90.0	90.2	90.2	90.4	90.5	90.5	90.6	90.6	90.6	90.7
IV 3000	60.2	85.6	88.9	90.7	91.8	92.1	92.5	92.7	92.7	93.0	93.0	93.0	93.1	93.2	93.2	93.3
IV 2500	61.1	87.7	90.4	92.2	93.4	93.6	94.1	94.2	94.3	94.5	94.5	94.6	94.7	94.7	94.7	94.8
IV 2000	61.8	88.2	91.7	93.6	94.8	95.1	95.6	95.8	95.8	96.0	96.1	96.1	96.2	96.2	96.2	96.3
IV 1800	61.9	88.5	92.0	93.9	95.2	95.4	95.9	96.1	96.1	96.3	96.4	96.4	96.5	96.5	96.6	96.7
IV 1500	62.3	89.4	92.9	94.9	96.2	96.5	97.0	97.1	97.2	97.4	97.4	97.5	97.6	97.6	97.6	97.7
IV 1200	62.5	89.9	93.5	95.5	96.8	97.1	97.6	97.8	97.8	98.1	98.1	98.2	98.3	98.3	98.3	98.4
IV 1000	62.7	90.3	93.9	95.9	97.2	97.5	98.1	98.3	98.3	98.5	98.6	98.6	98.7	98.7	98.8	98.9
IV 900	62.7	90.4	94.0	96.1	97.4	97.7	98.3	98.4	98.5	98.7	98.8	98.8	98.9	98.9	98.9	99.0
IV 800	62.7	90.5	94.2	96.3	97.7	97.9	98.5	98.7	98.7	99.0	99.0	99.1	99.2	99.2	99.2	99.3
IV 700	62.7	90.6	94.3	96.4	97.8	98.0	98.6	98.8	98.9	99.1	99.2	99.2	99.3	99.3	99.4	99.5
IV 600	62.7	90.7	94.3	96.4	97.8	98.1	98.7	98.9	99.0	99.2	99.3	99.3	99.4	99.4	99.5	99.6
IV 500	62.7	90.7	94.4	96.5	97.9	98.2	98.8	99.0	99.0	99.3	99.4	99.4	99.5	99.5	99.6	99.6
IV 400	62.7	90.7	94.4	96.5	97.9	98.2	98.8	99.0	99.1	99.4	99.4	99.4	99.5	99.6	99.6	99.7
IV 300	62.7	90.7	94.4	96.5	98.0	98.2	98.9	99.1	99.1	99.4	99.4	99.5	99.6	99.6	99.7	99.8
IV 200	62.7	90.7	94.4	96.5	98.0	98.2	98.9	99.1	99.1	99.4	99.4	99.5	99.6	99.6	99.7	99.8
IV 100	62.7	90.7	94.4	96.5	98.0	98.2	98.9	99.1	99.1	99.4	99.5	99.5	99.6	99.7	99.7	99.9
IV 0	62.7	90.7	94.4	96.5	98.0	98.2	98.9	99.1	99.1	99.4	99.5	99.5	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 15618



DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,49-66  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	36.1	54.6	57.0	58.3	59.3	59.5	59.8	60.0	60.0	60.2	60.2	60.2	60.3	60.4	60.4	60.5
IV 18000	42.7	64.0	66.7	68.1	69.1	69.3	69.7	69.9	69.9	70.1	70.1	70.2	70.3	70.3	70.4	70.5
IV 16000	42.9	64.3	67.0	68.4	69.4	69.6	70.0	70.2	70.2	70.4	70.5	70.5	70.6	70.6	70.7	70.8
IV 14000	43.7	64.7	67.4	68.8	69.8	70.0	70.4	70.6	70.6	70.8	70.9	70.9	71.0	71.0	71.1	71.2
IV 12000	44.5	66.8	69.6	71.1	72.1	72.3	72.6	72.8	72.9	73.1	73.1	73.1	73.2	73.2	73.3	73.4
IV 10000	46.6	70.2	73.2	74.8	75.8	76.1	76.4	76.6	76.7	76.9	76.9	77.0	77.1	77.1	77.2	77.3
IV 8000	47.9	72.6	75.7	77.3	78.5	78.7	79.1	79.3	79.4	79.6	79.6	79.6	79.8	79.8	79.9	80.0
IV 7000	48.5	73.7	76.8	78.5	79.6	79.9	80.3	80.5	80.5	80.7	80.8	80.8	80.9	80.9	81.0	81.1
IV 6000	49.4	75.5	78.7	80.4	81.6	81.8	82.2	82.5	82.5	82.7	82.8	82.8	82.9	82.9	83.0	83.1
IV 5000	49.9	76.5	79.8	81.5	82.8	83.0	83.4	83.6	83.7	83.9	83.9	84.0	84.1	84.1	84.2	84.3
IV 4500	50.3	77.1	80.5	82.2	83.5	83.8	84.2	84.4	84.4	84.7	84.7	84.7	84.9	84.9	85.0	85.1
IV 4000	51.6	79.3	82.7	84.5	85.8	86.0	86.4	86.7	86.7	87.0	87.0	87.0	87.1	87.2	87.2	87.3
IV 3500	52.2	80.3	83.8	85.6	86.9	87.1	87.5	87.8	87.8	88.1	88.1	88.1	88.2	88.3	88.4	88.5
IV 3000	53.3	81.9	85.4	87.3	88.6	88.9	89.3	89.5	89.6	89.8	89.9	89.9	90.0	90.0	90.1	90.2
IV 2500	53.9	83.0	86.6	88.5	89.8	90.1	90.5	90.8	90.8	91.1	91.1	91.1	91.3	91.3	91.4	91.5
IV 2000	54.8	84.5	88.2	90.2	91.5	91.8	92.3	92.5	92.6	92.8	92.9	92.9	93.0	93.0	93.1	93.2
IV 1800	55.4	85.8	89.5	91.6	93.0	93.3	93.8	94.0	94.1	94.4	94.4	94.4	94.5	94.6	94.7	94.8
IV 1500	55.9	86.8	90.7	92.8	94.3	94.6	95.1	95.3	95.4	95.7	95.7	95.7	95.9	95.9	96.0	96.1
IV 1200	55.9	87.0	90.8	93.0	94.5	94.8	95.4	95.6	95.7	96.0	96.0	96.0	96.1	96.2	96.3	96.4
IV 1000	56.1	87.5	91.4	93.6	95.2	95.5	96.0	96.3	96.3	96.6	96.7	96.7	96.8	96.9	96.9	97.1
IV 900	56.2	87.9	91.8	94.2	95.8	96.1	96.7	96.9	97.0	97.3	97.4	97.4	97.5	97.5	97.6	97.7
IV 800	56.4	88.2	92.2	94.6	96.2	96.5	97.1	97.4	97.5	97.8	97.8	97.9	98.0	98.0	98.1	98.2
IV 700	56.4	88.3	92.3	94.8	96.4	96.7	97.3	97.6	97.7	98.0	98.1	98.1	98.2	98.2	98.3	98.4
IV 600	56.5	88.4	92.5	94.9	96.5	96.9	97.5	97.8	97.9	98.2	98.3	98.3	98.4	98.4	98.5	98.6
IV 500	56.5	88.4	92.5	95.0	96.8	97.1	97.8	98.1	98.1	98.5	98.6	98.6	98.7	98.8	98.8	98.8
IV 400	56.5	88.5	92.6	95.1	96.9	97.2	97.9	98.3	98.3	98.7	98.8	98.8	99.0	99.0	99.1	99.2
IV 300	56.5	88.5	92.6	95.2	96.9	97.3	98.0	98.4	98.4	98.8	98.9	98.9	99.1	99.1	99.2	99.3
IV 200	56.5	88.5	92.6	95.2	97.0	97.3	98.1	98.4	98.5	98.9	99.0	99.1	99.2	99.3	99.4	99.5
IV 100	56.5	88.5	92.7	95.2	97.0	97.4	98.1	98.5	98.6	99.0	99.2	99.2	99.4	99.4	99.6	99.8
IV 0	56.5	88.5	92.7	95.2	97.0	97.4	98.1	98.5	98.6	99.0	99.2	99.2	99.4	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 16304

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	41.5	54.9	56.8	57.9	58.8	58.9	59.2	59.4	59.4	59.6	59.7	59.7	59.9	59.9	60.1	60.3
IV 20000	46.3	61.6	63.7	64.9	65.8	65.9	66.3	66.5	66.6	66.8	66.9	66.9	67.1	67.1	67.2	67.4
IV 18000	46.6	62.1	64.1	65.4	66.3	66.3	66.7	66.9	67.0	67.2	67.3	67.3	67.5	67.5	67.6	67.9
IV 16000	47.7	62.6	64.7	65.9	66.8	66.9	67.3	67.5	67.5	67.8	67.9	67.9	68.1	68.1	68.2	68.4
IV 14000	48.2	64.3	66.4	67.7	68.6	68.7	69.1	69.3	69.4	69.6	69.7	69.7	69.9	69.9	70.0	70.2
IV 12000	49.8	66.7	69.0	70.3	71.2	71.3	71.7	71.9	72.0	72.2	72.3	72.3	72.5	72.5	72.6	72.9
IV 10000	51.1	69.4	71.4	72.8	73.8	73.9	74.3	74.5	74.6	74.8	74.9	74.9	75.1	75.1	75.2	75.5
IV 9000	51.7	70.2	72.6	74.2	75.2	75.1	75.5	75.7	75.8	76.0	76.1	76.1	76.3	76.3	76.4	76.7
IV 8000	52.7	71.8	74.3	75.8	76.8	76.9	77.3	77.6	77.6	77.9	77.9	78.0	78.2	78.2	78.3	78.5
IV 7000	53.5	73.2	75.8	77.4	78.5	78.6	79.0	79.3	79.3	79.6	79.6	79.7	79.9	79.9	80.0	80.2
IV 6000	53.9	73.9	76.6	78.2	79.3	79.4	79.9	80.1	80.2	80.4	80.5	80.5	80.7	80.7	80.9	81.1
IV 5000	54.6	75.4	78.1	79.8	81.0	81.1	81.7	81.9	81.9	82.2	82.3	82.3	82.5	82.5	82.6	82.9
IV 4500	55.1	76.1	78.9	80.6	81.9	82.0	82.5	82.8	82.8	83.1	83.2	83.2	83.4	83.4	83.5	83.8
IV 4000	56.2	77.8	80.7	82.5	83.8	83.9	84.5	84.7	84.8	85.0	85.1	85.1	85.3	85.3	85.5	85.7
IV 3500	56.9	79.7	82.0	83.9	85.2	85.3	85.9	86.1	86.2	86.5	86.6	86.6	86.8	86.8	86.9	87.2
IV 3000	57.9	80.8	83.9	85.9	87.2	87.4	88.0	88.2	88.3	88.6	88.7	88.7	88.9	88.9	89.0	89.3
IV 2500	58.6	82.2	85.4	87.5	88.8	89.0	89.6	89.9	89.9	90.2	90.3	90.4	90.5	90.6	90.7	90.9
IV 2000	59.2	83.7	87.1	89.2	90.7	90.9	91.5	91.8	91.9	92.2	92.3	92.3	92.5	92.5	92.6	92.9
IV 1800	59.4	84.1	87.5	89.7	91.2	91.4	92.1	92.4	92.4	92.8	92.8	92.9	93.1	93.1	93.2	93.4
IV 1500	59.7	84.9	88.5	90.8	92.4	92.6	93.3	93.6	93.6	94.0	94.0	94.1	94.3	94.3	94.4	94.7
IV 1200	60.1	85.8	89.5	91.9	93.6	93.8	94.6	94.9	95.0	95.3	95.4	95.4	95.6	95.6	95.8	96.0
IV 1000	61.1	86.1	89.9	92.5	94.3	94.6	95.4	95.7	95.8	96.2	96.2	96.3	96.5	96.5	96.6	96.9
IV 900	60.1	86.3	90.1	92.7	94.6	94.8	95.8	96.1	96.2	96.5	96.6	96.6	96.8	96.8	97.0	97.2
IV 800	60.1	86.4	91.3	93.0	95.0	95.2	96.2	96.6	96.6	97.0	97.1	97.1	97.3	97.3	97.5	97.7
IV 700	60.1	86.5	90.5	93.2	95.3	95.5	96.6	97.0	97.1	97.4	97.5	97.6	97.8	97.8	97.9	98.2
IV 600	60.1	86.6	90.6	93.4	95.5	95.8	96.9	97.3	97.4	97.8	97.9	98.0	98.2	98.2	98.3	98.6
IV 500	60.1	86.7	90.7	93.6	95.8	96.1	97.2	97.7	97.8	98.2	98.3	98.4	98.6	98.6	98.7	99.0
IV 400	60.1	86.7	90.8	93.7	95.9	96.2	97.4	97.9	98.0	98.5	98.6	98.6	98.9	98.9	99.0	99.3
IV 300	60.1	86.8	90.8	93.8	96.0	96.3	97.5	98.1	98.2	98.7	98.8	98.8	99.1	99.1	99.2	99.5
IV 200	60.1	86.8	90.8	93.8	96.0	96.3	97.6	98.1	98.2	98.8	99.0	99.0	99.3	99.3	99.4	99.7
IV 100	60.1	86.8	90.8	93.8	96.0	96.3	97.6	98.2	98.2	98.8	99.0	99.0	99.3	99.3	99.4	99.8
IV 0	60.1	86.8	90.8	93.8	96.0	96.3	97.6	98.2	98.3	98.8	99.0	99.0	99.3	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 16555

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	41.4 44.5	58.8 63.3	61.0 65.7	62.8 67.5	63.8 68.6	64.1 68.8	64.4 69.3	64.7 69.6	64.7 69.6	64.9 69.8	65.0 69.9	65.0 69.9	65.1 69.9	65.1 69.9	65.2 70.1	65.4 70.3
IVIV 18000 16000	44.6 44.9	63.4 63.7	65.8 66.1	67.7 68.0	68.7 69.2	68.9 69.2	69.4 69.7	69.7 70.0	69.7 70.0	69.9 70.2	70.0 70.3	70.0 70.3	70.1 70.4	70.1 70.4	70.2 70.5	70.4 70.7
IVIV 14000 12000	45.5 46.6	64.6 66.3	67.0 68.7	68.9 70.6	70.0 71.7	70.2 71.9	70.7 72.3	71.0 72.7	71.0 72.7	71.2 72.9	71.2 72.9	71.2 72.9	71.3 73.0	71.3 73.0	71.5 73.2	71.7 73.3
IVIV 10000 9000	47.9 48.4	68.1 68.9	70.5 71.4	72.5 73.3	73.5 74.4	73.7 74.6	74.2 75.1	74.5 75.4	74.5 75.4	74.7 75.6	74.8 75.7	74.8 75.7	74.9 75.8	74.9 75.8	75.0 75.9	75.2 76.1
IVIV 8000 7000	49.4 50.2	70.6 72.0	73.2 74.7	75.2 76.8	76.3 78.0	76.5 78.1	77.0 78.7	77.3 79.0	77.3 79.0	77.5 79.2	77.6 79.3	77.6 79.3	77.7 79.4	77.7 79.4	77.8 79.5	78.0 79.7
IVIV 6000 5000	50.8 52.0	73.1 75.1	75.9 78.0	78.1 80.2	79.2 81.4	79.4 81.6	80.0 82.2	80.3 82.5	80.3 82.5	80.5 82.8	80.6 82.8	80.6 82.8	80.7 82.9	80.7 82.9	80.8 83.1	81.0 83.2
IVIV 4500 4000	52.6 53.3	76.0 77.3	78.9 80.3	81.2 82.6	82.5 83.9	82.7 84.1	83.2 84.7	83.6 85.1	83.6 85.1	83.8 85.3	83.9 85.4	83.9 85.4	84.0 85.5	84.0 85.5	84.1 85.6	84.3 85.8
IVIV 3500 3000	54.1 54.8	78.5 79.8	81.5 83.0	83.9 85.4	85.3 86.8	85.5 87.1	86.1 87.7	86.4 88.1	86.5 88.1	86.7 88.3	86.7 88.4	86.7 88.4	86.8 88.5	86.8 88.5	87.0 88.6	87.2 88.8
IVIV 2500 2000	55.4 56.0	81.1 82.6	84.3 86.0	86.9 88.6	88.4 90.3	88.6 90.5	89.3 91.2	89.7 91.6	89.7 91.7	89.9 91.9	90.0 92.0	90.0 92.0	90.1 92.1	90.1 92.1	90.2 92.2	90.4 92.4
IVIV 1800 1500	56.1 56.5	82.9 84.0	86.3 87.4	89.0 90.3	90.6 91.9	90.9 92.2	91.6 93.0	92.0 93.4	92.0 93.4	92.3 93.6	92.3 93.6	92.3 93.7	92.4 93.8	92.4 93.8	92.6 94.0	92.8 94.1
IVIV 1200 1000	56.7 56.8	84.9 85.3	88.5 89.0	91.5 92.1	93.3 94.0	93.6 94.3	94.5 95.2	94.9 95.6	94.9 95.7	95.1 95.9	95.2 96.0	95.2 96.0	95.3 96.1	95.3 96.1	95.5 96.3	95.7 96.4
IVIV 900 800	56.8 56.8	85.5 85.7	89.2 89.5	92.4 92.7	94.3 94.7	94.6 95.0	95.6 96.0	96.0 96.4	96.1 96.5	96.3 96.8	96.4 96.9	96.4 96.9	96.5 97.0	96.5 97.0	96.7 97.1	96.8 97.3
IVIV 700 600	56.9 56.9	85.9 86.2	89.7 89.9	92.9 93.1	95.0 95.3	95.3 95.6	96.3 96.7	96.8 97.2	96.8 97.3	97.1 97.6	97.2 97.7	97.2 97.8	97.3 97.9	97.3 97.9	97.5 98.0	97.7 98.2
IVIV 500 400	56.9 56.9	86.1 86.2	90.0 90.1	93.4 93.4	95.5 95.7	95.9 96.1	97.1 97.3	97.6 97.9	97.7 98.0	98.1 98.4	98.2 98.5	98.2 98.5	98.3 98.7	98.3 98.7	98.5 98.8	98.7 99.0
IVIV 300 200	56.9 56.9	86.2 86.2	90.1 90.2	93.5 93.5	95.8 95.8	96.2 96.2	97.5 97.5	98.1 98.2	98.1 98.2	98.2 98.7	98.6 99.0	98.6 99.0	98.9 99.1	98.9 99.1	99.1 99.3	99.3 99.6
IVIV 100 0	56.9 56.9	86.2 86.2	90.2 90.2	93.5 93.5	95.8 95.8	96.2 96.2	97.5 97.5	98.2 98.2	98.2 98.2	98.8 98.8	99.0 99.0	99.0 99.0	99.2 99.2	99.2 99.2	99.3 99.4	99.6 100.0

TOTAL NUMBER OF OBSERVATIONS 17108

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB STATION NAME 42-46,49-66 YEARS NOV MONTH  
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) ALL HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	42.5	46.2	48.1	49.8	51.0	51.2	51.9	52.2	52.2	52.4	52.5	52.5	52.6	52.7	52.8	53.1
≥ 20000	46.1	51.1	53.4	55.3	56.6	56.9	57.6	57.9	58.0	58.2	58.3	58.3	58.4	58.4	58.5	58.8
IVIV 18000	36.3	51.4	53.7	55.5	56.9	57.2	57.9	58.2	58.3	58.5	58.6	58.6	58.7	58.7	58.8	59.1
16000	36.5	51.7	54.0	55.9	57.3	57.5	58.3	58.6	58.6	58.8	59.0	59.0	59.1	59.1	59.2	59.5
IVIV 14000	37.1	52.8	55.1	57.0	58.5	58.7	59.5	59.8	59.9	60.1	60.2	60.2	60.3	60.4	60.5	60.8
12000	38.2	54.4	56.9	58.8	60.3	60.6	61.4	61.7	61.8	62.0	62.1	62.1	62.2	62.2	62.3	62.7
IVIV 10000	39.2	56.1	58.5	60.5	62.0	62.3	63.1	63.4	63.5	63.7	63.8	63.8	63.9	64.0	64.1	64.4
9000	39.7	56.8	59.3	61.4	62.8	63.2	64.0	64.3	64.4	64.6	64.7	64.7	64.8	64.8	64.9	65.3
IVIV 8000	40.7	58.8	61.4	63.5	65.0	65.3	66.1	66.5	66.5	66.8	66.9	66.9	67.0	67.0	67.1	67.5
7000	41.9	61.0	63.7	65.9	67.4	67.7	68.6	68.9	69.0	69.2	69.3	69.4	69.5	69.5	69.6	69.9
IVIV 6000	42.5	62.3	65.0	67.2	68.8	69.2	70.0	70.4	70.4	70.7	70.8	70.8	70.9	70.9	71.0	71.4
5000	43.7	64.7	67.6	70.0	71.7	72.1	72.9	73.3	73.4	73.7	73.8	73.8	73.9	73.9	74.0	74.4
IVIV 4500	44.3	65.8	68.9	71.3	73.1	73.5	74.4	74.8	74.9	75.1	75.3	75.3	75.4	75.4	75.5	75.8
4000	45.1	67.6	70.8	73.4	75.2	75.6	76.5	77.0	77.0	77.3	77.4	77.4	77.5	77.6	77.7	78.0
IVIV 3500	46.1	69.3	72.6	75.3	77.2	77.6	78.6	79.0	79.1	79.4	79.5	79.5	79.6	79.6	79.7	80.1
3000	46.8	71.0	74.5	77.3	79.2	79.7	80.6	81.1	81.2	81.5	81.6	81.6	81.8	81.8	81.9	82.2
IVIV 2500	47.7	73.1	76.7	79.6	81.8	82.2	83.2	83.7	83.8	84.1	84.2	84.2	84.4	84.4	84.5	84.9
2000	48.5	75.4	79.3	82.4	84.7	85.1	86.2	86.7	86.8	87.1	87.2	87.3	87.4	87.4	87.5	87.9
IVIV 1800	48.7	76.1	80.1	83.2	85.5	86.0	87.1	87.6	87.7	88.0	88.1	88.2	88.3	88.3	88.4	88.8
1500	49.2	77.6	81.8	85.1	87.6	88.1	89.3	89.9	89.9	90.3	90.4	90.4	90.6	90.6	90.7	91.1
IVIV 1200	49.4	78.7	83.1	86.7	89.3	89.8	91.0	91.6	91.7	92.1	92.2	92.3	92.4	92.4	92.6	92.9
1000	49.5	79.4	84.0	87.6	90.4	91.0	92.3	92.9	93.0	93.4	93.5	93.6	93.7	93.7	93.9	94.2
IVIV 900	49.5	79.7	84.3	88.0	90.9	91.5	92.9	93.5	93.6	94.0	94.2	94.2	94.3	94.3	94.5	94.8
800	49.5	79.9	84.6	88.4	91.4	92.0	93.4	94.1	94.2	94.7	94.8	94.8	95.0	95.0	95.1	95.5
IVIV 700	49.5	80.1	84.8	88.7	91.8	92.5	93.9	94.7	94.7	95.3	95.4	95.4	95.6	95.6	95.7	96.1
600	49.6	80.2	85.1	89.1	92.4	93.1	94.7	95.5	95.6	96.2	96.4	96.4	96.6	96.6	96.8	97.1
IVIV 500	49.6	80.3	85.2	89.4	92.9	93.6	95.4	96.2	96.3	97.1	97.2	97.2	97.5	97.5	97.7	98.0
400	49.6	80.4	85.3	89.5	93.1	94.0	95.8	96.7	96.9	97.7	97.9	97.9	98.1	98.2	98.3	98.7
IVIV 300	49.6	80.4	85.4	89.6	93.3	94.2	96.1	97.1	97.2	98.1	98.3	98.4	98.6	98.6	98.8	99.2
200	49.6	80.4	85.4	89.6	93.3	94.2	96.2	97.2	97.3	98.3	98.6	98.6	98.9	99.0	99.2	99.6
IVIV 100	49.6	80.4	85.4	89.6	93.3	94.2	96.2	97.2	97.4	98.4	98.6	98.7	99.0	99.1	99.3	99.8
0	49.6	80.4	85.4	89.6	93.3	94.2	96.2	97.2	97.4	98.4	98.6	98.7	99.0	99.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 16558

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46-49-66  
YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.Y.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	23.3 26.1	35.8 40.5	37.8 42.8	39.3 44.5	40.2 45.5	40.2 45.6	40.6 46.0	40.8 46.3	40.8 46.3	40.9 46.4	41.0 46.5	41.0 46.5	41.0 46.6	41.1 46.6	41.1 46.7	41.2 46.8
IVIV 18000 16000	26.2 26.4	40.8 41.1	43.1 43.4	44.8 45.1	45.8 46.1	45.9 46.2	46.3 46.7	46.6 46.9	46.6 47.1	46.7 47.1	46.8 47.2	46.8 47.2	46.9 47.2	46.9 47.2	47.0 47.3	47.1 47.4
IVIV 14000 12000	26.8 27.7	42.1 43.7	44.4 46.2	46.1 48.0	47.2 49.1	47.3 49.2	47.8 49.7	48.0 50.1	48.0 50.2	48.2 50.3	48.2 50.3	48.2 50.3	48.3 50.3	48.3 50.4	48.4 50.4	48.5 50.6
IVIV 10000 9000	28.7 29.3	45.6 46.4	48.2 49.1	50.1 51.0	51.3 52.2	51.4 52.3	51.9 52.9	52.2 53.1	52.2 53.1	52.4 53.3	52.5 53.4	52.5 53.4	52.5 53.5	52.6 53.5	52.6 53.6	52.8 53.7
IVIV 8000 7000	30.4 31.3	48.4 50.3	51.2 53.3	53.1 55.4	54.3 56.6	54.5 56.8	55.1 57.4	55.3 57.7	55.3 57.7	55.6 57.9	55.6 58.0	55.6 58.0	55.7 58.1	55.7 58.1	55.8 58.2	55.9 58.3
IVIV 6000 5000	31.9 32.6	51.6 53.6	54.7 57.0	56.9 59.3	58.2 60.7	58.4 60.9	59.0 61.5	59.3 61.9	59.3 61.9	59.6 62.1	59.6 62.2	59.6 62.2	59.7 62.3	59.7 62.3	59.8 62.4	60.0 62.5
IVIV 4500 4000	33.2 33.8	54.9 56.3	58.3 60.3	60.7 62.4	62.1 64.1	62.3 64.3	63.0 65.0	63.4 65.4	63.4 65.4	63.6 65.6	63.7 65.7	63.7 65.7	63.8 65.8	63.8 65.8	63.9 65.9	64.0 66.1
IVIV 3500 3000	34.6 35.5	58.0 60.0	61.7 64.0	64.3 66.7	66.0 68.4	66.2 68.7	66.9 69.6	67.3 69.9	67.3 70.0	67.6 70.3	67.7 70.3	67.7 70.4	67.8 70.4	67.8 70.5	67.9 70.6	68.0 70.7
IVIV 2500 2000	36.7 37.7	62.6 66.1	66.8 70.7	69.8 74.1	71.7 76.3	71.9 76.6	72.9 77.7	73.3 78.2	73.3 78.6	73.7 78.7	73.7 78.7	73.7 78.7	73.8 78.8	73.9 78.8	74.0 78.9	74.1 79.1
IVIV 1800 1500	38.1 38.5	67.1 69.2	71.8 74.2	75.3 78.1	77.5 80.7	77.9 81.0	79.0 82.5	79.5 83.1	79.6 83.1	80.0 83.6	80.1 83.7	80.1 83.8	80.2 83.9	80.2 83.9	80.3 84.0	80.4 84.1
IVIV 1200 1000	38.8 39.1	70.7 71.5	76.0 77.2	80.7 82.3	83.6 85.6	84.0 86.1	85.6 88.0	86.4 88.9	86.5 88.9	87.0 89.6	87.1 89.8	87.2 89.8	87.3 90.0	87.3 90.0	87.4 90.1	87.6 90.3
IVIV 900 800	39.1 39.1	71.8 72.2	77.7 78.2	83.0 83.8	86.4 87.5	87.0 88.1	89.0 90.3	90.0 91.3	90.0 91.4	90.7 92.2	90.9 92.5	91.0 92.5	91.1 92.7	91.2 92.7	91.3 92.8	91.4 93.1
IVIV 700 600	39.1 39.1	72.4 72.5	78.5 78.8	84.2 84.6	88.1 88.7	88.7 89.4	91.1 92.1	92.2 93.4	92.3 93.5	93.2 94.5	93.5 94.8	93.5 94.9	93.7 95.1	93.8 95.2	93.9 95.3	94.1 95.5
IVIV 500 400	39.1 39.1	72.6 72.6	78.9 79.2	84.9 85.1	89.2 89.6	89.9 90.4	92.8 93.4	94.3 95.0	94.4 95.1	95.7 96.4	96.1 96.9	96.2 97.0	96.5 97.3	96.5 97.4	96.7 97.5	96.9 97.7
IVIV 300 200	39.1 39.1	72.7 72.7	79.0 79.0	85.1 85.2	89.7 89.8	90.5 90.6	93.7 93.8	95.4 95.6	95.6 95.8	97.0 97.3	97.6 98.0	97.7 98.1	98.1 98.6	98.1 98.6	98.3 98.9	98.5 99.1
IVIV 100 0	39.1 39.1	72.7 72.7	79.0 79.0	85.2 85.2	89.8 89.8	90.6 90.6	93.8 93.8	95.6 95.6	95.8 95.8	97.4 97.4	98.1 98.2	98.2 98.6	98.8 98.8	98.9 98.9	99.2 99.3	99.4 100.3

TOTAL NUMBER OF OBSERVATIONS 17103

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13927  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	20.1 21.9	34.8 37.9	36.4 39.8	38.0 41.7	39.2 43.2	39.4 43.4	40.0 43.9	40.2 44.2	40.3 44.2	40.7 44.6	40.8 44.7	40.8 44.7	41.0 44.9	41.0 45.0	41.1 45.1	41.4 45.4
IVIV 18000 16000	22.1 22.0	38.0 38.0	39.9 40.0	41.7 41.8	43.1 43.1	43.5 43.6	44.0 44.1	44.3 44.4	44.4 44.4	44.7 44.8	44.8 44.9	44.8 44.9	45.1 45.1	45.1 45.2	45.3 45.3	45.5 45.5
IVIV 14000 12000	22.6 23.4	39.2 40.7	41.2 42.8	43.1 44.9	44.4 46.2	44.9 46.7	45.4 47.2	45.7 47.5	45.7 47.6	46.1 47.9	46.2 48.0	46.2 48.0	46.4 48.3	46.5 48.3	46.6 48.3	46.9 48.7
IVIV 10000 9000	24.1 24.5	42.4 43.2	44.7 45.5	47.2 47.9	48.5 49.2	49.0 49.7	49.5 50.2	49.8 50.5	49.8 50.6	50.2 50.9	50.3 51.0	50.3 51.0	50.5 51.3	50.6 51.3	50.7 51.5	50.9 51.7
IVIV 8000 7000	24.9 25.6	45.1 46.8	47.5 49.3	50.2 52.0	51.4 53.4	51.8 53.9	52.4 54.6	52.7 54.9	52.7 55.0	53.1 55.3	53.2 55.4	53.2 55.4	53.4 55.7	53.5 55.7	53.6 55.9	53.8 56.1
IVIV 6000 5000	26.1 26.3	47.9 49.5	50.5 52.5	53.3 55.4	54.7 57.0	55.3 57.5	56.0 58.3	56.3 58.6	56.4 58.6	56.8 59.0	56.8 59.1	56.8 59.1	57.1 59.3	57.1 59.4	57.3 59.5	57.5 59.8
IVIV 4500 4000	27.1 27.3	51.0 52.3	54.1 55.5	57.2 58.6	58.8 60.5	59.3 61.0	60.1 61.8	60.5 62.1	60.5 62.2	60.9 62.6	61.0 62.7	61.0 62.7	61.2 62.9	61.3 63.0	61.4 63.1	61.7 63.4
IVIV 3500 3000	27.8 28.4	53.3 55.1	56.8 58.7	59.9 62.1	62.0 64.2	62.5 64.7	63.3 65.6	63.8 66.2	63.8 66.2	64.2 66.6	64.4 66.7	64.4 66.7	64.6 67.0	64.6 67.1	64.8 67.2	65.1 67.5
IVIV 2500 2000	29.1 30.0	57.6 62.3	61.6 66.7	65.2 70.8	67.5 73.6	68.0 74.3	68.9 75.4	69.6 76.0	69.6 76.0	70.1 76.6	70.2 76.8	70.2 76.8	70.5 77.1	70.5 77.1	70.7 77.3	71.0 77.5
IVIV 1800 1500	30.1 30.4	63.2 65.2	67.5 69.8	72.0 74.5	74.8 77.7	75.5 78.4	76.6 79.7	77.3 80.4	77.3 80.5	77.9 81.1	78.0 81.4	78.0 81.4	78.3 81.7	78.3 81.7	78.4 81.8	78.8 82.1
IVIV 1200 1000	30.5 30.5	67.3 67.6	72.6 73.1	77.7 78.4	81.1 82.2	81.8 82.9	83.3 84.7	84.1 85.4	84.2 85.6	84.9 86.3	85.1 86.5	85.1 86.5	85.4 86.8	85.5 86.9	85.6 87.0	85.9 87.3
IVIV 900 800	30.5 30.6	68.1 68.5	73.6 74.2	79.0 79.7	83.0 83.9	83.8 84.7	85.6 86.7	86.5 87.7	86.6 87.9	87.4 88.8	87.7 89.0	87.7 89.0	88.0 89.4	88.0 89.4	88.3 89.6	88.6 89.9
IVIV 700 600	30.6 30.6	68.9 69.0	75.0 75.1	80.7 81.3	85.4 86.2	86.2 87.1	88.5 89.7	89.4 90.8	89.6 90.9	90.6 92.3	90.9 92.6	90.9 92.6	91.2 92.9	91.3 93.0	91.5 93.2	91.8 93.5
IVIV 500 400	30.6 30.6	69.1 69.2	75.4 75.6	81.7 81.9	86.8 87.4	87.7 88.4	90.6 91.6	91.8 92.9	92.0 93.1	93.5 94.7	93.9 95.1	93.9 95.2	94.2 95.6	94.2 95.6	94.5 95.9	94.8 96.2
IVIV 300 200	30.6 30.6	69.2 69.2	75.6 75.6	81.9 81.9	87.5 87.5	88.5 88.5	92.1 92.2	93.7 93.8	93.9 93.9	95.7 96.2	96.1 96.7	96.2 96.7	96.7 97.4	96.8 97.5	97.0 97.8	97.3 98.1
IVIV 100 0	30.6 30.6	69.2 69.2	75.6 75.6	81.9 81.9	87.5 87.5	88.5 88.5	92.2 92.2	93.9 93.9	94.1 94.1	96.6 97.2	97.2 97.2	97.2 97.2	98.0 98.0	98.1 98.1	98.6 98.6	99.1 99.1

TOTAL NUMBER OF OBSERVATIONS 2132

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMY. NA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

G300-C500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	18.2	32.7	34.8	36.7	36.7	37.0	37.7	37.9	37.9	38.2	38.3	38.3	38.5	38.5	38.7	39.0
≥ 20000	19.2	34.7	37.3	38.9	39.9	40.4	41.1	41.3	41.3	41.6	41.8	41.8	42.0	42.1	42.2	42.6
IVIV 18000	19.2	34.8	37.4	38.9	39.9	40.4	41.1	41.4	41.4	41.7	41.9	41.9	42.1	42.1	42.3	42.7
16000	19.4	35.1	37.6	39.2	40.2	40.7	41.4	41.6	41.6	42.0	42.1	42.1	42.4	42.4	42.6	42.9
IVIV 14000	19.8	36.7	38.6	40.1	41.2	41.6	42.3	42.6	42.6	42.9	43.1	43.1	43.3	43.4	43.6	43.9
12000	20.4	37.0	39.8	41.5	42.5	43.1	43.7	44.0	44.0	44.3	44.5	44.5	44.7	44.8	45.0	45.3
IVIV 10000	21.0	38.6	41.4	43.2	44.3	44.8	45.5	45.9	45.9	46.2	46.4	46.4	46.6	46.6	46.8	47.2
9000	21.2	39.6	42.5	44.3	45.3	45.9	46.6	46.9	46.9	47.3	47.4	47.4	47.7	47.7	47.9	48.3
IVIV 8000	21.8	41.2	44.2	46.2	47.2	47.7	48.5	48.9	48.9	49.2	49.4	49.4	49.6	49.6	49.8	50.2
7000	22.1	42.2	45.4	47.4	48.4	48.9	49.8	50.2	50.2	50.5	50.7	50.7	50.9	51.0	51.1	51.5
IVIV 6000	22.2	43.4	46.6	48.8	49.8	50.3	51.2	51.6	51.6	51.9	52.1	52.1	52.3	52.4	52.6	52.9
5000	22.9	45.5	48.8	51.1	52.2	52.7	53.7	54.1	54.1	54.4	54.6	54.6	54.8	54.9	55.0	55.4
IVIV 4500	23.3	47.2	50.6	52.9	54.1	54.6	55.6	55.9	55.9	56.3	56.4	56.4	56.7	56.7	56.9	57.3
4000	23.8	48.4	52.2	54.6	56.0	56.5	57.5	57.9	57.9	58.2	58.4	58.4	58.6	58.6	58.8	59.2
IVIV 3500	24.7	50.3	54.1	56.6	58.1	58.6	59.8	60.1	60.1	60.4	60.6	60.6	60.9	60.9	61.1	61.5
3000	25.5	52.2	56.2	58.9	60.6	61.1	62.4	62.7	62.7	63.1	63.2	63.2	63.5	63.5	63.7	64.1
IVIV 2500	25.9	54.4	58.6	61.4	63.2	63.8	65.0	65.4	65.4	65.7	65.9	65.9	66.2	66.2	66.4	66.8
2000	27.0	58.6	63.3	66.7	68.8	69.5	70.8	71.4	71.4	71.9	72.2	72.2	72.4	72.5	72.7	73.0
IVIV 1800	27.2	59.7	64.4	67.8	70.1	70.7	72.1	72.7	72.8	73.3	73.6	73.6	73.8	73.9	74.1	74.4
1500	27.6	62.5	67.7	71.4	73.8	74.5	76.0	76.7	76.7	77.8	78.2	78.2	78.5	78.5	78.7	79.1
IVIV 1200	27.9	64.8	70.2	74.1	76.7	77.5	79.0	79.8	79.8	81.0	81.3	81.3	81.7	81.7	81.9	82.3
1000	28.1	66.1	71.8	75.9	79.0	79.7	81.7	82.5	82.5	83.7	84.1	84.1	84.4	84.5	84.7	85.1
IVIV 900	28.1	66.6	72.8	77.1	80.4	81.2	83.4	84.2	84.2	85.6	85.9	85.9	86.3	86.4	86.5	87.0
800	28.1	67.1	73.6	77.9	81.6	82.5	84.9	85.7	85.8	87.3	87.6	87.6	88.0	88.0	88.2	88.7
IVIV 700	28.1	67.5	74.3	78.9	82.8	83.6	86.2	87.3	87.4	89.0	89.3	89.3	89.7	89.7	89.9	90.4
600	28.1	67.7	74.8	79.7	83.9	84.8	87.5	88.7	88.8	90.4	90.8	90.8	91.1	91.2	91.4	91.8
IVIV 500	28.1	67.9	75.1	80.1	84.6	85.5	88.5	89.9	90.0	91.8	92.4	92.5	93.1	93.2	93.3	93.8
400	28.1	67.9	75.2	80.5	85.1	86.0	89.5	91.0	91.1	93.2	93.8	93.9	94.6	94.6	94.8	95.3
IVIV 300	28.1	68.0	75.3	80.6	85.5	86.5	90.2	91.9	92.0	94.5	95.4	95.5	96.4	96.4	96.6	97.1
200	28.1	68.0	75.3	80.7	85.6	86.5	90.3	92.1	92.3	94.9	95.9	96.1	97.1	97.2	97.5	98.0
IVIV 100	28.1	68.0	75.3	80.7	85.6	86.5	90.3	92.1	92.3	95.3	96.4	96.6	97.7	97.7	98.2	98.7
0	28.1	68.0	75.3	80.7	85.6	86.5	90.3	92.1	92.3	95.4	96.4	96.7	97.7	97.8	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS. 2133

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

43-47, 49-66

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	16.1	26.2	28.2	29.7	30.8	31.3	32.1	32.5	32.5	32.7	32.8	32.8	33.1	33.1	33.1	33.4
IV 20000	18.4	30.1	32.5	34.5	36.3	36.8	37.6	38.3	38.3	38.6	38.9	38.9	39.2	39.2	39.3	39.6
IV 18000	18.4	30.2	32.6	34.6	36.4	36.8	37.7	38.5	38.5	38.7	39.0	39.0	39.3	39.3	39.5	39.8
IV 16000	18.5	30.4	32.8	34.8	36.6	37.0	37.9	38.7	38.7	39.0	39.3	39.3	39.6	39.6	39.8	40.0
IV 14000	18.7	31.1	33.5	35.5	37.4	37.8	38.6	39.5	39.5	39.8	40.0	40.0	40.4	40.4	40.5	40.8
IV 12000	19.5	32.2	34.6	36.6	38.6	39.0	39.9	40.9	40.9	41.2	41.5	41.5	41.8	41.8	42.0	42.2
IV 10000	20.1	33.8	36.3	38.5	40.5	40.9	42.1	43.0	43.0	43.3	43.6	43.6	43.9	43.9	44.1	44.4
IV 9000	20.6	34.6	37.3	39.6	41.6	42.0	43.2	44.1	44.1	44.4	44.7	44.7	45.1	45.1	45.2	45.5
IV 8000	21.1	36.0	38.8	41.2	43.6	44.2	45.5	46.4	46.4	46.8	47.1	47.1	47.4	47.4	47.5	47.9
IV 7000	21.6	37.1	40.1	42.7	45.1	45.8	47.2	48.1	48.1	48.6	48.9	48.9	49.2	49.2	49.3	49.6
IV 6000	21.8	38.3	41.4	44.0	46.6	47.2	48.8	49.8	49.8	50.3	50.5	50.5	50.9	50.9	51.0	51.3
IV 5000	22.6	41.5	43.9	46.6	49.3	50.2	51.6	52.6	52.7	53.2	53.5	53.5	53.8	53.8	54.0	54.3
IV 4500	23.0	41.3	44.8	47.5	50.3	51.0	52.6	53.6	53.7	54.2	54.5	54.5	54.8	54.8	54.9	55.3
IV 4000	23.4	42.4	46.1	49.1	52.0	52.7	54.4	55.5	55.6	56.1	56.4	56.4	56.8	56.8	56.9	57.2
IV 3500	24.3	43.6	47.6	50.7	53.8	54.5	56.3	57.4	57.4	58.0	58.3	58.3	58.6	58.6	58.8	59.1
IV 3000	25.1	45.2	49.6	53.0	56.1	56.8	58.6	59.8	59.9	60.5	60.8	60.8	61.1	61.1	61.3	61.6
IV 2500	26.1	48.0	52.5	56.2	59.3	60.2	61.9	63.1	63.2	63.9	64.1	64.2	64.6	64.6	64.7	65.0
IV 2000	27.4	51.6	56.4	60.3	63.6	64.5	66.5	68.0	68.1	68.9	69.3	69.3	69.9	69.9	70.0	70.3
IV 1800	27.8	52.9	57.8	61.7	65.1	65.9	68.0	69.6	69.7	70.6	71.1	71.1	71.6	71.6	71.8	72.1
IV 1600	28.8	55.9	60.9	65.4	69.0	69.9	72.2	73.8	74.0	75.0	75.5	75.5	76.0	76.0	76.2	76.6
IV 1400	29.1	58.1	63.7	68.4	72.5	73.3	76.0	77.8	78.1	79.1	79.7	79.7	80.2	80.2	80.4	80.8
IV 1200	29.2	59.1	65.0	70.0	74.6	75.5	78.3	80.2	80.5	81.6	82.2	82.2	82.8	82.8	83.0	83.4
IV 1000	29.2	59.8	66.1	71.3	75.9	77.0	80.3	82.1	82.4	83.5	84.2	84.2	84.9	84.9	85.0	85.4
IV 900	29.2	60.4	66.9	72.2	77.4	78.4	82.1	84.2	84.5	85.7	86.4	86.5	87.1	87.1	87.3	87.7
IV 800	29.2	60.9	67.8	73.5	78.7	79.7	83.5	85.6	85.8	87.1	87.9	88.0	88.6	88.6	88.8	89.2
IV 700	29.3	61.3	68.3	74.3	80.0	81.2	85.2	87.6	87.8	89.1	90.0	90.1	90.6	90.8	91.0	91.4
IV 600	29.3	61.5	68.5	74.6	80.6	81.8	86.3	89.0	89.2	91.0	92.0	92.1	93.0	93.0	93.2	93.7
IV 500	29.3	61.7	68.6	75.2	81.3	82.5	87.3	90.2	90.5	92.6	93.9	94.1	95.1	95.1	95.4	95.8
IV 400	29.3	61.7	68.8	75.3	81.7	83.1	88.4	91.6	91.9	94.5	96.1	96.3	97.5	97.6	97.8	98.4
IV 300	29.3	61.7	68.7	75.2	81.6	82.9	88.1	91.2	91.5	94.0	95.4	95.6	96.7	96.8	97.0	97.5
IV 200	29.3	61.7	68.8	75.3	81.7	83.1	88.4	91.6	91.9	94.5	96.1	96.3	97.5	97.6	97.8	98.4
IV 100	29.3	61.8	68.8	75.4	81.8	83.1	88.5	91.7	92.2	94.8	96.4	96.8	98.1	98.2	98.5	99.2
IV 0	29.3	61.8	68.8	75.4	81.8	83.1	88.5	91.7	92.2	94.8	96.4	96.9	98.2	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 2133



DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47, 49-66  
YEARS

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	19.1	26.2	27.5	28.6	29.2	29.3	29.5	29.7	29.7	29.9	30.0	30.0	30.0	30.0	30.1	30.1
≥ 20000	3.7	33.4	34.7	36.3	37.2	37.4	37.7	38.1	38.2	38.4	38.6	38.6	38.6	38.6	38.6	38.6
IVV 18000	3.7	33.2	34.8	36.5	37.4	37.5	37.9	38.3	38.4	38.6	38.7	38.7	38.7	38.7	38.8	38.8
IVV 16000	3.8	33.4	35.1	36.7	37.8	37.9	38.2	38.6	38.7	38.9	39.1	39.1	39.1	39.1	39.1	39.2
IVV 14000	24.4	34.1	35.8	37.5	38.5	38.7	39.0	39.4	39.4	39.7	39.9	39.9	39.9	39.9	39.9	40.0
IVV 12000	5.2	35.1	36.9	38.6	39.6	39.8	41.1	40.5	40.6	40.9	41.0	41.0	41.0	41.0	41.0	41.1
IVV 10000	16.4	36.8	38.8	40.6	41.7	41.9	42.2	42.6	42.7	43.0	43.2	43.2	43.2	43.2	43.2	43.2
IVV 9000	7.7	37.6	39.5	41.4	42.5	42.7	43.0	43.4	43.4	43.8	43.9	43.9	43.9	43.9	43.9	44.0
IVV 8000	27.7	39.2	41.2	43.1	44.4	44.7	45.0	45.4	45.5	45.8	46.0	46.0	46.0	46.0	46.0	46.1
IVV 7000	8.5	47.7	42.8	44.9	46.4	46.8	47.1	47.7	47.7	48.1	48.2	48.2	48.2	48.2	48.3	48.3
IVV 6000	29.7	41.3	43.7	45.9	47.5	47.9	48.3	48.9	49.0	49.3	49.4	49.4	49.4	49.4	49.5	49.5
IVV 5000	19.7	42.8	45.3	47.6	49.5	49.9	50.4	51.0	51.1	51.4	51.5	51.5	51.5	51.5	51.6	51.6
IVV 4500	29.9	43.4	46.0	48.3	50.2	50.7	51.2	51.8	51.9	52.2	52.3	52.3	52.3	52.3	52.4	52.4
IVV 4000	10.3	44.3	46.9	49.3	51.3	51.8	52.4	53.0	53.0	53.4	53.6	53.6	53.6	53.6	53.6	53.7
IVV 3500	31.1	45.6	48.4	50.9	53.0	53.6	54.2	54.8	54.9	55.3	55.4	55.4	55.4	55.4	55.5	55.5
IVV 3000	11.5	47.1	51.0	52.7	55.0	55.6	56.3	56.9	57.0	57.4	57.6	57.6	57.6	57.6	57.6	57.6
IVV 2500	33.9	51.2	54.2	56.9	59.5	60.1	60.9	61.6	61.7	62.1	62.2	62.2	62.2	62.2	62.2	62.3
IVV 2000	10.5	56.7	59.9	63.2	66.3	67.0	68.0	68.7	68.8	69.5	69.7	69.7	69.7	69.7	69.7	69.8
IVV 1800	37.1	58.1	61.4	64.9	68.1	68.7	69.7	70.5	70.6	71.3	71.5	71.5	71.5	71.5	71.6	71.6
IVV 1500	38.2	61.4	65.1	68.7	72.3	73.1	74.3	75.1	75.3	76.0	76.5	76.5	76.5	76.5	76.5	76.6
IVV 1200	38.8	64.3	68.2	72.1	76.1	77.0	78.7	79.6	79.8	80.7	81.2	81.2	81.2	81.2	81.3	81.3
IVV 1000	39.2	65.5	70.0	74.2	79.1	80.1	82.4	83.3	83.5	84.6	85.1	85.1	85.2	85.2	85.2	85.3
IVV 900	39.2	66.1	70.9	75.5	80.5	81.6	84.2	85.2	85.4	86.5	87.1	87.1	87.2	87.2	87.3	87.3
IVV 800	39.3	66.5	71.6	76.5	81.8	82.9	86.0	87.2	87.4	88.6	89.2	89.2	89.3	89.3	89.4	89.4
IVV 700	39.3	66.8	72.1	77.3	82.9	84.2	87.7	89.0	89.3	90.5	91.1	91.1	91.2	91.2	91.3	91.3
IVV 600	39.3	66.9	72.3	77.9	83.7	85.1	88.8	90.6	90.9	92.3	93.1	93.1	93.2	93.2	93.2	93.3
IVV 500	39.3	66.9	72.7	78.3	84.8	86.4	90.6	92.8	93.1	94.8	95.8	95.9	96.0	96.0	96.1	96.1
IVV 400	39.3	66.9	72.7	78.4	84.9	86.6	91.0	93.3	93.7	95.6	96.9	97.0	97.2	97.2	97.2	97.3
IVV 300	39.3	67.0	72.8	78.5	85.2	87.0	91.6	94.1	94.6	97.3	98.4	98.5	99.1	99.1	99.2	99.2
IVV 200	39.3	67.0	72.8	78.5	85.2	87.0	91.6	94.1	94.7	97.2	98.6	98.8	99.3	99.4	99.5	99.5
IVV 100	39.3	67.0	72.8	78.5	85.2	87.0	91.6	94.2	94.7	97.2	98.7	98.9	99.5	99.6	99.7	99.7
IVV 0	39.3	67.0	72.8	78.5	85.2	87.0	91.6	94.2	94.7	97.2	98.7	98.9	99.7	99.8	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 2432

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SPYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	25.1	31.2	32.0	32.6	32.8	32.8	32.9	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
IVV 18000 16000	31.3	39.4	40.6	41.5	41.7	41.8	42.1	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
IVV 14000 12000	31.5	39.6	40.7	41.7	41.9	42.0	42.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
IVV 10000 9000	32.0	40.5	41.7	42.7	43.0	43.0	43.3	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
IVV 8000 7000	33.2	41.9	43.2	44.2	44.5	44.6	44.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
IVV 6000 5000	34.0	43.9	45.4	46.4	46.7	46.7	47.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
IVV 4500 4000	35.6	45.1	46.6	47.6	47.9	48.0	48.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
IVV 3500 3000	36.3	46.5	48.1	49.2	49.6	49.7	50.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
IVV 2500 2000	37.3	48.1	49.6	50.8	51.5	51.6	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
IVV 1800 1500	37.9	49.1	51.6	51.9	52.5	52.6	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IVV 1200 1000	38.7	51.4	52.5	53.8	54.8	55.0	55.3	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IVV 900 800	39.1	52.4	53.2	54.5	55.5	55.7	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IVV 700 600	39.7	52.4	54.3	55.6	56.7	56.8	57.2	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
IVV 500 400	40.3	53.8	55.9	57.3	58.3	58.5	58.9	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IVV 300 200	41.9	56.1	58.3	59.8	61.1	61.3	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IVV 100 0	44.8	60.3	62.7	64.4	65.9	66.1	66.6	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2
	46.4	64.6	67.5	69.5	71.2	71.5	72.2	72.8	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1
	46.7	65.3	68.2	70.4	72.3	72.6	73.3	73.9	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2
	48.0	68.8	72.1	74.5	76.8	77.1	77.9	78.6	78.6	78.9	78.9	78.9	79.0	79.0	79.0	79.0
	48.2	71.4	75.1	78.1	81.1	81.6	82.8	83.5	83.5	83.9	84.0	84.0	84.0	84.0	84.0	84.0
	48.4	72.9	76.7	80.2	83.4	84.0	85.4	86.3	86.4	86.8	86.9	87.0	87.0	87.0	87.0	87.0
	48.4	73.3	77.5	81.1	84.6	85.3	87.0	87.9	87.9	88.5	88.6	88.7	88.7	88.7	88.8	88.8
	48.5	74.1	78.4	82.3	86.0	87.2	89.2	90.2	90.3	90.9	91.1	91.2	91.3	91.3	91.3	91.3
	48.5	74.3	79.0	83.1	87.2	88.6	90.9	92.0	92.0	92.7	93.0	93.1	93.2	93.2	93.2	93.2
	48.5	74.6	79.4	83.7	88.3	89.7	92.6	94.0	94.0	94.8	95.2	95.2	95.4	95.4	95.4	95.4
	48.5	74.8	79.8	84.3	89.3	91.1	94.1	95.6	95.7	96.5	97.2	97.3	97.5	97.5	97.6	97.6
	48.5	74.8	79.8	84.5	89.6	91.5	94.7	96.3	96.3	97.2	97.9	98.0	98.2	98.2	98.3	98.3
	48.5	74.8	79.9	84.7	90.1	92.0	95.4	97.1	97.2	98.1	99.0	99.1	99.4	99.4	99.5	99.5
	48.5	74.8	80.0	84.8	90.2	92.0	95.4	97.2	97.3	98.3	99.3	99.4	99.8	99.8	100.0	100.0
	48.5	74.8	80.0	84.8	90.2	92.0	95.4	97.2	97.3	98.3	99.3	99.4	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2132

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHFVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13227  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	16.9 23.5	33.5 42.5	34.1 43.3	34.8 44.4	34.9 44.6	34.9 44.6	34.9 44.7	35.1 44.9	35.0 44.9	35.1 45.0	35.1 45.0	35.1 45.0	35.1 45.0	35.1 45.0	35.1 45.0	35.1 45.0
IVV 18000 16000	23.8 24.3	42.8 43.3	43.6 44.1	44.7 45.2	44.9 45.4	44.9 45.5	45.0 45.7	45.2 45.7	45.2 45.7	45.3 45.7	45.3 45.7	45.3 45.7	45.3 45.7	45.3 45.7	45.3 45.7	45.3 45.7
IVV 14000 12000	34.8 26.2	44.3 46.2	45.1 47.1	46.3 48.7	46.5 49.7	46.5 49.7	46.6 49.7	46.8 49.3	46.8 49.3	46.9 49.3	46.9 49.3	46.9 49.3	46.9 49.3	46.9 49.3	46.9 49.3	46.9 49.3
IVV 10000 9000	27.4 17.9	47.8 48.7	48.9 49.9	51.4 51.5	50.7 51.8	50.7 51.8	51.8 52.0	51.1 52.2	51.0 52.2	51.1 52.2	51.1 52.2	51.1 52.2	51.1 52.2	51.1 52.2	51.1 52.2	51.1 52.2
IVV 8000 7000	19.3 40.3	50.5 51.9	51.8 53.6	53.6 55.4	54.7 55.9	54.7 55.9	54.1 56.0	54.3 56.2	54.3 56.2	54.4 56.2	54.4 56.2	54.4 56.2	54.4 56.2	54.4 56.2	54.4 56.2	54.4 56.2
IVV 6000 5000	40.9 42.2	52.9 55.1	54.6 57.1	56.6 59.2	57.1 59.8	57.1 59.8	57.3 59.9	57.5 60.1	57.5 60.1	57.6 60.2	57.6 60.2	57.6 60.2	57.6 60.2	57.6 60.2	57.6 60.2	57.6 60.2
IVV 4500 4000	42.9 43.9	56.1 57.6	58.3 59.9	61.5 62.2	61.2 62.9	61.2 62.9	61.4 63.0	61.4 63.4	61.5 63.4	61.5 63.4	61.5 63.4	61.5 63.4	61.5 63.4	61.5 63.4	61.5 63.4	61.5 63.4
IVV 3500 3000	44.9 46.6	59.7 62.2	62.1 64.8	64.6 67.3	65.2 68.0	65.2 68.0	65.5 68.6	65.8 68.9	65.8 68.9	65.9 69.0	65.9 69.0	65.9 69.0	65.9 69.0	65.9 69.0	65.9 69.0	65.9 69.0
IVV 2500 2000	47.9 49.5	65.2 68.5	67.6 71.4	70.3 74.3	71.2 75.7	71.2 75.9	71.8 76.6	72.1 77.1	72.1 77.1	72.3 77.3	72.3 77.3	72.3 77.3	72.3 77.3	72.3 77.3	72.3 77.3	72.3 77.3
IVV 1800 1500	49.9 50.7	69.2 71.2	72.3 74.7	75.4 78.0	76.8 80.0	77.1 80.0	77.8 81.1	78.2 81.6	78.2 81.6	78.5 81.9	78.5 81.9	78.5 81.9	78.5 81.9	78.5 81.9	78.5 82.0	78.5 82.0
IVV 1200 1000	50.7 50.8	72.3 73.7	76.6 77.5	80.1 81.6	82.7 84.7	83.1 85.2	84.1 86.5	84.7 87.2	84.7 87.2	85.4 87.9	85.4 87.9	85.4 87.9	85.4 87.9	85.4 87.9	85.5 87.9	85.5 87.9
IVV 900 800	50.8 50.8	73.4 73.9	78.0 78.5	82.2 83.0	85.9 87.0	86.5 87.8	88.0 90.1	88.7 90.9	88.7 90.9	89.4 91.7	89.5 91.9	89.5 91.9	89.6 92.0	89.6 92.0	89.7 92.1	89.8 92.2
IVV 700 600	50.8 50.8	74.2 74.2	79.0 79.3	83.6 84.1	87.9 88.8	88.8 89.7	91.3 92.3	92.4 93.7	92.4 93.7	93.3 94.7	93.6 95.1	93.6 95.1	93.7 95.2	93.7 95.2	93.9 95.5	94.0 95.6
IVV 500 400	50.8 50.8	74.3 74.4	79.5 79.5	84.2 84.3	89.1 89.4	90.3 90.3	93.0 93.7	94.6 95.6	94.6 95.6	95.8 96.9	96.5 97.6	96.6 97.7	96.7 97.8	96.8 97.9	97.1 98.2	97.2 98.4
IVV 300 200	50.8 50.8	74.4 74.4	79.5 79.5	84.4 84.4	89.5 89.6	90.5 90.6	94.0 94.1	96.1 96.3	96.2 96.4	97.7 98.0	98.5 98.8	98.6 98.9	98.9 99.3	98.9 99.4	99.2 99.7	99.4 99.9
IVV 100 0	50.8 50.8	74.4 74.4	79.5 79.5	84.4 84.4	89.6 89.6	90.6 90.6	94.1 94.1	96.3 96.3	96.4 96.4	98.0 98.0	98.8 98.8	98.9 98.9	99.3 99.3	99.4 99.4	99.8 99.8	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 2132

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-47,49-66  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	5.6	36.0	37.6	38.6	39.4	39.6	40.0	40.1	40.1	40.2	40.2	40.2	40.2	40.2	40.2	40.2
IV 20000	9.2	41.6	43.4	44.5	45.5	45.8	46.3	46.3	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6
IV 18000	9.4	42.1	43.8	45.0	45.9	46.2	46.7	46.7	46.7	47.0	47.0	47.0	47.1	47.1	47.1	47.1
IV 16000	9.7	42.3	44.1	45.2	46.2	46.5	47.0	47.1	47.0	47.3	47.3	47.3	47.4	47.4	47.4	47.4
IV 14000	10.1	43.1	44.9	46.2	47.2	47.4	48.0	48.0	48.0	48.2	48.3	48.3	48.3	48.3	48.3	48.3
IV 12000	11.1	44.6	46.6	48.1	49.1	49.4	49.9	49.9	49.9	50.2	50.2	50.2	50.3	50.3	50.3	50.3
IV 10000	12.2	46.6	48.8	50.3	51.2	51.5	52.0	52.1	52.1	52.3	52.4	52.4	52.4	52.4	52.4	52.4
IV 9000	13.1	48.1	50.3	52.0	53.1	53.3	53.8	53.8	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 8000	13.8	49.5	51.8	53.5	54.5	54.8	55.3	55.4	55.4	55.6	55.6	55.6	55.7	55.7	55.7	55.7
IV 7000	14.5	50.7	53.1	55.2	56.3	56.6	57.1	57.1	57.1	57.4	57.4	57.4	57.5	57.5	57.5	57.5
IV 6000	15.1	52.4	54.8	56.9	58.1	58.4	58.9	58.9	58.9	59.3	59.3	59.3	59.4	59.4	59.4	59.4
IV 5000	16.1	53.9	56.4	58.7	60.0	60.3	60.9	60.9	60.9	61.2	61.3	61.3	61.3	61.3	61.3	61.3
IV 4500	16.5	55.4	58.1	60.4	61.7	62.0	62.6	62.6	62.6	63.0	63.0	63.0	63.1	63.1	63.1	63.1
IV 4000	17.4	57.3	60.2	62.6	64.0	64.3	64.9	65.0	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 3500	17.7	58.6	61.9	64.5	66.0	66.3	67.0	67.1	67.1	67.5	67.5	67.5	67.6	67.6	67.6	67.6
IV 3000	18.4	60.5	63.9	66.7	68.3	68.6	69.5	69.6	69.6	70.0	70.0	70.0	70.1	70.1	70.1	70.1
IV 2500	19.4	63.5	67.2	70.2	71.8	72.2	73.0	73.1	73.1	73.6	73.6	73.6	73.7	73.7	73.7	73.7
IV 2000	20.1	66.5	70.8	74.2	76.3	76.7	77.7	77.9	77.9	78.3	78.3	78.3	78.4	78.4	78.4	78.4
IV 1800	20.2	67.5	71.9	75.3	77.5	77.9	79.0	79.2	79.2	79.6	79.7	79.7	79.7	79.7	79.7	79.7
IV 1500	20.5	69.1	73.8	77.4	80.0	80.4	81.8	82.0	82.0	82.4	82.5	82.5	82.6	82.6	82.6	82.6
IV 1200	20.5	70.6	75.8	79.8	82.8	83.5	85.0	85.3	85.3	85.9	86.0	86.0	86.1	86.1	86.1	86.1
IV 1000	20.5	71.1	76.4	81.1	85.1	86.0	88.0	88.3	88.3	89.0	89.2	89.2	89.3	89.3	89.3	89.3
IV 900	20.6	71.4	76.7	81.5	85.9	86.9	89.0	89.3	89.3	90.0	90.2	90.2	90.2	90.2	90.2	90.3
IV 800	20.6	71.5	76.9	81.9	86.6	87.7	90.3	90.6	90.6	91.3	91.5	91.5	91.6	91.6	91.6	91.7
IV 700	20.6	71.5	77.0	82.3	87.2	88.2	91.3	91.7	91.7	92.4	92.6	92.6	92.7	92.7	92.7	92.8
IV 600	20.6	71.7	77.3	82.8	88.0	89.2	92.6	93.2	93.2	94.0	94.2	94.2	94.3	94.3	94.4	94.4
IV 500	20.6	71.7	77.4	82.9	88.4	89.8	93.7	94.3	94.3	95.5	95.8	95.8	95.9	95.9	96.0	96.0
IV 400	20.6	71.8	77.4	83.0	88.8	90.2	94.4	95.1	95.1	96.4	96.8	96.9	97.0	97.1	97.2	97.2
IV 300	20.6	71.8	77.5	83.1	89.2	90.6	95.1	95.9	96.0	97.5	97.9	98.0	98.2	98.3	98.4	98.5
IV 200	20.6	71.8	77.5	83.1	89.3	90.7	95.4	96.4	96.4	98.3	98.8	98.9	99.2	99.2	99.4	99.6
IV 100	20.6	71.8	77.5	83.1	89.3	90.7	95.4	96.4	96.5	98.3	98.9	99.0	99.4	99.5	99.7	99.9
IV 0	20.6	71.9	77.6	83.1	89.3	90.7	95.5	96.4	96.5	98.4	98.9	99.0	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 2133

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

43-47,49-66

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	71.9	36.2	38.6	40.2	41.5	41.5	41.8	42.0	42.0	42.3	42.4	42.4	42.5	42.5	42.7	42.6
IV 20000	74.4	41.5	43.1	44.7	46.2	46.3	46.7	46.9	46.9	47.2	47.4	47.4	47.5	47.5	47.7	47.9
IV 18000	74.6	40.9	43.6	45.3	46.7	46.9	47.2	47.4	47.4	47.7	47.9	47.9	48.0	48.0	48.2	48.4
IV 16000	74.7	41.1	43.8	45.5	46.9	47.0	47.4	47.6	47.6	47.9	48.1	48.1	48.2	48.2	48.4	48.6
IV 14000	75.0	42.1	44.8	46.5	47.9	48.1	48.5	48.6	48.7	49.0	49.2	49.2	49.2	49.3	49.5	49.7
IV 12000	75.1	43.3	46.2	48.3	49.7	49.9	50.2	50.4	50.4	50.8	50.9	50.9	51.0	51.0	51.2	51.4
IV 10000	76.5	44.9	48.0	50.2	51.6	51.8	52.2	52.3	52.4	52.7	52.9	52.9	53.0	53.0	53.2	53.4
IV 9000	77.0	45.5	48.7	51.1	52.6	52.8	53.1	53.3	53.4	53.7	53.8	53.8	53.9	54.0	54.2	54.4
IV 8000	78.0	47.5	50.7	53.2	54.8	55.3	55.5	55.7	55.7	56.1	56.2	56.2	56.3	56.3	56.5	56.7
IV 7000	78.6	49.1	52.4	55.1	56.8	57.0	57.5	57.7	57.7	58.1	58.3	58.3	58.3	58.4	58.6	58.8
IV 6000	79.0	50.3	53.6	56.4	58.2	58.3	58.9	59.1	59.1	59.5	59.7	59.7	59.8	59.8	60.0	60.2
IV 5000	79.8	52.1	55.5	58.4	60.3	60.5	61.0	61.3	61.3	61.7	61.9	61.9	62.0	62.0	62.3	62.5
IV 4500	80.3	53.8	57.3	60.2	62.1	62.3	62.9	63.2	63.2	63.6	63.8	63.8	63.9	64.0	64.3	64.4
IV 4000	81.0	55.2	58.9	61.9	63.9	64.2	64.9	65.2	65.2	65.6	65.8	65.8	65.9	66.0	66.3	66.5
IV 3500	81.6	56.8	60.7	63.8	66.0	66.3	67.2	67.5	67.5	68.0	68.2	68.2	68.3	68.3	68.6	68.8
IV 3000	82.4	58.9	62.9	66.3	68.7	68.9	69.8	70.2	70.2	70.7	70.9	70.9	71.0	71.1	71.3	71.5
IV 2500	82.9	60.8	65.2	68.7	71.2	71.4	72.4	72.7	72.7	73.3	73.5	73.5	73.6	73.6	73.9	74.1
IV 2000	83.4	64.6	69.2	72.9	75.7	76.0	76.9	77.3	77.3	77.9	78.1	78.1	78.2	78.3	78.6	78.8
IV 1800	83.6	65.6	70.3	74.2	77.1	77.3	78.4	78.7	78.8	79.5	79.6	79.6	79.8	79.8	80.1	80.3
IV 1500	83.7	67.4	72.7	76.9	80.4	80.8	82.1	82.5	82.6	83.3	83.5	83.5	83.7	83.7	84.1	84.2
IV 1200	83.9	68.3	74.0	78.8	82.7	83.3	84.8	85.3	85.4	86.1	86.3	86.3	86.4	86.5	86.8	87.0
IV 1000	83.9	68.6	74.7	79.7	84.1	84.9	86.7	87.2	87.3	88.0	88.2	88.2	88.4	88.4	88.7	88.9
IV 900	83.9	69.1	75.3	80.6	85.1	85.9	87.8	88.3	88.5	89.3	89.4	89.4	89.6	89.6	90.0	90.2
IV 800	84.0	69.4	75.6	81.1	86.1	86.9	88.9	89.5	89.7	90.5	90.7	90.7	90.9	90.9	91.3	91.5
IV 700	84.0	69.6	76.1	81.8	86.9	87.7	90.0	90.5	90.7	91.6	91.8	91.8	91.9	92.0	92.4	92.5
IV 600	84.0	69.7	76.5	82.6	88.0	88.8	91.4	92.1	92.3	93.3	93.5	93.5	93.6	93.7	94.0	94.2
IV 500	84.0	69.8	76.8	83.0	88.8	89.7	92.6	93.3	93.5	94.8	95.1	95.1	95.4	95.4	95.9	96.1
IV 400	84.0	69.8	76.9	83.2	89.2	90.1	93.2	94.2	94.4	95.8	96.2	96.2	96.5	96.5	97.1	97.4
IV 300	84.0	69.8	76.9	83.2	89.4	90.3	93.7	94.8	95.1	96.9	97.2	97.2	97.7	97.7	98.3	98.6
IV 200	84.0	69.8	76.9	83.2	89.5	90.5	93.9	95.1	95.4	97.2	97.6	97.6	98.1	98.2	98.9	99.2
IV 100	84.0	69.8	76.9	83.2	89.5	90.6	94.0	95.2	95.5	97.4	97.9	97.9	98.5	98.5	99.4	99.8
IV 0	84.0	69.8	76.9	83.2	89.5	90.6	94.0	95.2	95.5	97.4	97.9	97.9	98.5	98.6	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 2132

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13927  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-C200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	72.5	38.1	40.5	42.3	43.5	43.6	44.0	44.2	44.2	44.6	44.7	44.7	44.8	44.8	44.9	44.9
IV 20000	24.3	42.1	44.8	47.2	48.3	48.4	48.8	49.1	49.1	49.5	49.7	49.7	49.8	49.8	49.8	49.9
IV 18000	24.4	42.1	44.8	47.0	48.3	48.4	48.9	49.2	49.2	49.5	49.7	49.7	49.8	49.8	49.9	49.9
IV 16000	24.4	42.2	44.9	47.1	48.4	48.5	49.0	49.2	49.2	49.6	49.8	49.8	49.9	49.9	49.9	50.0
IV 14000	25.3	43.4	46.3	48.5	49.8	49.9	50.3	50.6	50.6	51.0	51.2	51.2	51.3	51.3	51.3	51.4
IV 12000	25.9	45.0	48.2	51.3	51.7	51.9	52.3	52.6	52.6	53.3	53.1	53.1	53.2	53.2	53.3	53.4
IV 10000	27.4	47.8	50.9	53.4	54.8	54.9	55.4	55.7	55.7	56.0	56.2	56.2	56.3	56.3	56.4	56.5
IV 9000	27.9	48.8	52.0	54.5	55.9	56.0	56.5	56.8	56.8	57.2	57.4	57.4	57.5	57.5	57.5	57.6
IV 8000	28.7	51.2	54.4	57.1	58.6	58.7	59.2	59.5	59.5	59.9	60.1	60.1	60.2	60.2	60.2	60.3
IV 7000	29.6	53.4	56.8	59.7	61.3	61.4	61.9	62.2	62.2	62.6	62.8	62.8	62.9	62.9	63.0	63.1
IV 6000	30.3	55.3	59.0	62.1	63.7	63.8	64.3	64.6	64.6	65.0	65.2	65.2	65.3	65.3	65.3	65.4
IV 5000	30.9	57.5	61.4	64.7	66.4	66.5	67.0	67.4	67.4	67.8	68.0	68.0	68.1	68.1	68.1	68.2
IV 4500	31.3	58.7	62.8	66.3	68.0	68.1	68.7	69.0	69.0	69.4	69.6	69.6	69.7	69.7	69.7	69.8
IV 4000	32.1	61.4	64.7	68.2	70.1	70.1	70.7	71.1	71.1	71.6	71.7	71.7	71.8	71.8	71.9	72.0
IV 3500	32.1	61.4	65.6	69.2	71.0	71.1	71.7	72.1	72.1	72.5	72.7	72.7	72.8	72.8	72.8	72.9
IV 3000	32.4	62.7	67.4	70.9	72.8	72.9	73.6	74.0	74.0	74.4	74.6	74.6	74.7	74.7	74.7	74.8
IV 2500	32.8	64.9	69.8	73.5	75.5	75.7	76.4	76.8	76.8	77.2	77.4	77.4	77.5	77.5	77.6	77.7
IV 2000	33.3	67.3	72.5	76.7	79.1	79.3	80.1	80.5	80.5	81.0	81.2	81.2	81.3	81.3	81.3	81.4
IV 1800	33.4	67.8	73.3	77.5	79.9	80.1	80.9	81.4	81.4	81.9	82.0	82.0	82.1	82.1	82.2	82.3
IV 1500	33.7	69.2	74.9	79.3	82.1	82.3	83.4	83.8	83.8	84.3	84.5	84.5	84.6	84.6	84.6	84.8
IV 1200	33.9	71.5	76.4	81.2	84.2	84.4	85.5	86.0	86.0	86.5	86.6	86.6	86.7	86.7	86.8	86.9
IV 1000	34.1	71.2	77.5	82.6	85.8	86.1	87.3	88.0	88.0	88.5	88.7	88.7	88.8	88.8	88.8	88.9
IV 900	34.1	71.7	78.2	83.3	86.7	87.1	88.4	89.1	89.1	89.7	89.9	89.9	90.0	90.0	90.0	90.1
IV 800	34.1	72.2	79.0	84.4	88.0	88.4	89.6	90.5	90.5	91.1	91.3	91.4	91.5	91.5	91.5	91.6
IV 700	34.1	72.5	79.7	85.3	89.0	89.6	91.0	91.9	91.9	92.5	92.8	92.8	92.9	92.9	93.0	93.1
IV 600	34.1	72.8	80.1	85.9	90.0	90.5	91.9	92.9	93.0	93.6	93.8	93.9	94.0	94.0	94.1	94.2
IV 500	34.1	72.9	80.5	86.5	90.8	91.4	93.0	94.0	94.1	94.8	95.0	95.1	95.3	95.3	95.4	95.5
IV 400	34.1	72.9	80.6	86.7	91.5	92.1	93.8	95.1	95.1	95.9	96.1	96.1	96.4	96.4	96.5	96.6
IV 300	34.1	72.9	80.7	86.8	91.7	92.4	94.6	95.9	96.0	97.0	97.4	97.4	98.0	98.0	98.1	98.2
IV 200	34.1	72.9	80.7	86.9	91.8	92.5	94.7	96.1	96.2	97.3	97.9	98.0	98.8	98.8	99.1	99.2
IV 100	34.1	72.9	80.7	86.9	91.8	92.5	94.7	96.1	96.2	97.4	98.2	98.2	99.1	99.1	99.4	99.6
IV 0	34.1	72.9	80.7	86.9	91.8	92.5	94.7	96.1	96.2	97.4	98.2	98.3	99.2	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 1863

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	18.6	35.3	37.5	40.2	41.3	41.5	42.1	42.4	42.5	42.6	42.6	42.6	42.7	42.7	42.7	42.8
IV 18000 16000	20.7	38.2	41.0	44.1	45.5	45.7	46.4	46.8	46.9	47.0	47.1	47.1	47.2	47.2	47.2	47.3
IV 14000 12000	20.8	38.3	41.1	44.2	45.6	45.8	46.5	46.9	47.0	47.1	47.2	47.2	47.3	47.3	47.3	47.4
IV 10000 9000	20.9	38.5	41.2	44.4	45.8	46.0	46.7	47.0	47.1	47.2	47.3	47.3	47.5	47.5	47.5	47.6
IV 8000 7000	21.6	39.6	42.4	45.6	47.0	47.2	47.9	48.2	48.3	48.4	48.5	48.5	48.6	48.6	48.6	48.7
IV 6000 5000	22.5	41.8	44.6	47.9	49.3	49.5	50.3	50.6	50.7	50.8	50.9	50.9	51.0	51.0	51.0	51.2
IV 4500 4000	23.5	44.1	46.9	50.3	51.9	52.1	52.9	53.2	53.3	53.4	53.5	53.5	53.6	53.6	53.6	53.8
IV 3500 3000	23.9	44.9	47.7	51.2	52.8	53.0	53.8	54.2	54.3	54.4	54.5	54.5	54.6	54.6	54.6	54.8
IV 2500 2000	24.8	47.1	50.1	53.6	55.1	55.4	56.4	56.7	56.8	57.0	57.1	57.1	57.2	57.2	57.2	57.3
IV 1800 1500	25.2	48.2	51.4	54.9	56.5	56.8	57.8	58.1	58.2	58.3	58.5	58.5	58.6	58.6	58.6	58.7
IV 1200 1000	26.0	50.2	53.5	57.0	58.7	59.0	60.0	60.4	60.5	60.6	60.7	60.7	60.8	60.8	60.8	61.0
IV 900 800	26.5	51.7	55.3	59.2	61.1	61.4	62.4	62.8	62.9	63.0	63.1	63.1	63.2	63.2	63.2	63.4
IV 700 600	26.9	53.3	57.0	60.9	62.9	63.2	64.2	64.6	64.7	64.8	64.9	64.9	65.0	65.0	65.0	65.2
IV 500 400	27.5	55.2	58.9	62.9	64.9	65.3	66.3	66.7	66.8	66.9	67.0	67.0	67.1	67.1	67.3	67.4
IV 300 200	28.1	56.7	60.4	64.8	66.9	67.2	68.3	68.7	68.8	68.9	69.0	69.0	69.1	69.1	69.2	69.4
IV 100 0	28.4	58.3	62.1	66.7	68.9	69.2	70.3	70.7	70.9	71.0	71.1	71.1	71.2	71.2	71.3	71.4
	28.9	60.5	64.8	69.8	72.1	72.5	73.6	74.1	74.2	74.3	74.4	74.4	74.5	74.5	74.6	74.8
	29.4	63.1	67.8	73.2	75.7	76.1	77.3	77.8	77.9	78.0	78.2	78.2	78.3	78.3	78.4	78.6
	29.6	64.0	68.8	74.2	76.8	77.3	78.5	79.0	79.1	79.3	79.4	79.4	79.5	79.5	79.7	79.9
	29.8	65.4	70.3	76.0	79.0	79.4	80.7	81.2	81.3	81.5	81.6	81.6	81.7	81.7	81.9	82.1
	30.1	67.0	72.2	78.3	81.5	82.0	83.3	83.9	84.0	84.2	84.3	84.3	84.4	84.4	84.6	84.8
	30.3	68.0	73.3	79.7	83.2	83.8	85.2	85.8	85.9	86.3	86.5	86.5	86.6	86.6	86.7	87.0
	30.3	68.5	74.1	80.7	84.2	84.8	86.3	86.9	87.0	87.5	87.7	87.7	87.8	87.8	88.0	88.2
	30.3	68.9	74.7	81.4	85.1	85.7	87.4	88.0	88.1	88.7	88.9	88.9	89.2	89.2	89.3	89.5
	30.3	69.1	75.0	82.1	86.0	86.6	88.4	89.2	89.3	89.8	90.1	90.1	90.3	90.3	90.4	90.7
	30.3	69.4	75.5	82.9	87.1	87.8	89.7	90.6	90.7	91.3	91.7	91.7	92.0	92.0	92.2	92.4
	30.3	69.7	76.1	83.8	88.1	89.0	91.0	92.1	92.2	92.8	93.3	93.3	93.7	93.7	93.8	94.0
	30.3	69.7	76.2	84.2	88.7	89.6	91.9	93.1	93.2	94.1	94.7	94.7	95.1	95.1	95.3	95.5
	30.3	69.8	76.3	84.3	89.0	90.0	92.6	93.9	94.0	95.2	95.9	95.9	96.7	96.7	97.0	97.3
	30.3	69.8	76.3	84.3	89.0	90.0	92.9	94.4	94.6	95.9	96.8	96.8	97.8	97.8	98.2	98.4
	30.3	69.8	76.3	84.3	89.0	90.0	92.9	94.4	94.6	96.1	97.0	97.1	98.2	98.2	98.6	99.0
	30.3	69.8	76.3	84.3	89.0	90.0	92.9	94.4	94.6	96.1	97.0	97.1	98.4	98.4	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1863

DATA PROCESSING DIVISION  
ITAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

6600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	15.5	27.2	28.8	30.9	33.1	33.2	34.6	35.5	35.5	36.3	36.5	36.5	36.5	36.5	36.6	36.7
IV 20000	18.7	31.2	33.3	35.9	38.1	38.4	40.0	40.9	41.0	41.8	42.0	42.0	42.0	42.0	42.2	42.4
IV 18000	18.7	31.3	33.4	35.9	38.2	38.4	40.1	41.0	41.1	41.9	42.2	42.2	42.2	42.2	42.3	42.5
IV 16000	18.7	31.3	33.4	36.7	38.2	38.5	40.2	41.1	41.2	42.0	42.3	42.3	42.3	42.3	42.4	42.6
IV 14000	18.3	32.7	34.1	36.7	39.1	39.4	41.1	42.0	42.2	43.0	43.2	43.2	43.2	43.2	43.3	43.5
IV 12000	19.4	34.1	36.6	39.3	41.7	41.9	43.7	44.6	44.8	45.6	45.8	45.8	45.8	45.8	45.9	46.1
IV 10000	20.5	35.9	38.5	41.3	43.7	44.0	45.8	46.7	46.9	47.7	47.9	47.9	47.9	47.9	48.0	48.2
IV 9000	21.2	37.7	39.8	42.6	45.3	45.5	47.6	48.5	48.7	49.5	49.7	49.7	49.7	49.7	49.8	50.1
IV 8000	22.8	39.8	42.7	45.6	48.3	48.8	50.9	51.9	52.1	52.9	53.1	53.1	53.1	53.1	53.2	53.4
IV 7000	23.4	41.6	44.8	47.9	50.7	51.1	53.3	54.4	54.5	55.3	55.5	55.5	55.5	55.5	55.6	55.9
IV 6000	24.7	42.7	46.1	49.4	52.2	52.6	54.9	56.3	56.1	56.9	57.2	57.2	57.2	57.2	57.3	57.5
IV 5000	24.7	44.7	47.5	50.8	53.8	54.2	56.6	57.6	57.8	58.7	58.9	58.9	58.9	58.9	59.0	59.2
IV 4500	24.9	45.1	48.7	52.0	55.1	55.6	58.0	59.1	59.3	60.2	60.5	60.5	60.5	60.5	60.6	60.9
IV 4000	25.2	46.2	50.0	53.5	56.8	57.4	59.8	61.7	61.2	62.2	62.4	62.4	62.4	62.4	62.6	62.8
IV 3500	25.8	47.2	51.1	54.6	58.1	58.6	61.2	62.4	62.6	63.6	63.9	63.9	63.9	63.9	64.0	64.2
IV 3000	26.4	49.1	53.3	57.3	60.8	61.3	64.1	65.3	65.5	66.6	66.8	66.8	66.8	66.8	67.0	67.2
IV 2500	27.3	51.8	56.2	60.3	64.1	64.6	67.4	68.8	69.0	70.2	70.4	70.4	70.4	70.4	70.6	70.8
IV 2000	28.2	54.6	59.5	64.7	68.3	68.9	71.9	73.3	73.5	74.7	75.1	75.1	75.1	75.1	75.3	75.5
IV 1800	28.5	55.9	61.1	65.7	70.2	70.8	73.9	75.4	75.6	76.8	77.2	77.2	77.2	77.2	77.4	77.6
IV 1500	28.8	57.6	63.1	67.9	72.7	73.5	76.7	78.4	78.6	79.9	80.2	80.2	80.3	80.3	80.4	80.7
IV 1200	29.3	59.7	65.7	71.1	76.4	77.2	80.8	82.7	82.9	84.4	84.7	84.7	84.7	84.7	84.9	85.2
IV 1000	29.7	60.8	67.0	72.5	78.1	79.2	82.6	84.5	84.7	86.3	86.7	86.7	86.7	86.7	86.9	87.2
IV 900	29.8	61.5	67.8	73.5	79.3	80.2	84.0	86.0	86.2	87.9	88.2	88.2	88.3	88.3	88.4	88.7
IV 800	29.8	61.9	68.5	74.4	80.3	81.2	85.3	87.4	87.6	89.5	89.9	89.9	89.9	89.9	90.1	90.4
IV 700	29.8	62.1	68.9	74.8	80.9	81.9	86.1	88.3	88.5	90.4	90.9	90.9	91.0	91.0	91.1	91.4
IV 600	29.8	62.6	69.5	75.5	82.0	83.0	87.4	89.7	89.9	91.9	92.6	92.6	92.8	92.9	93.1	93.4
IV 500	29.8	62.6	69.9	76.2	82.7	83.8	88.4	90.8	91.1	93.3	94.1	94.1	94.5	94.5	94.8	95.1
IV 400	29.8	62.6	70.0	76.3	83.0	84.0	88.9	91.5	91.9	94.4	95.3	95.4	95.8	95.9	96.1	96.4
IV 300	29.8	62.6	70.0	76.3	83.1	84.2	89.1	91.9	92.3	94.9	95.9	96.0	96.8	97.0	97.5	97.7
IV 200	29.8	62.6	70.0	76.3	83.2	84.3	89.3	92.1	92.6	95.5	96.7	96.7	97.7	97.9	98.4	98.8
IV 100	29.8	62.6	70.0	76.3	83.2	84.3	89.3	92.1	92.6	95.6	96.8	96.9	97.9	98.1	98.7	99.1
IV 0	29.8	62.6	70.0	76.3	83.2	84.3	89.3	92.1	92.6	95.6	96.9	96.9	98.1	98.4	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 1860



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13927  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	1.6	31.5	33.3	34.4	35.2	35.3	35.7	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
IVIV 18000 16000	26.2	38.7	40.8	42.2	43.5	43.7	44.1	44.4	44.4	44.4	44.5	44.5	44.5	44.6	44.6	44.6
IVIV 14000 12000	27.2	40.0	42.1	43.6	44.9	45.1	45.5	45.8	45.8	45.9	45.9	45.9	45.9	46.0	46.0	46.0
IVIV 10000 9000	28.8	42.8	45.1	46.7	48.1	48.4	48.7	49.1	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2
IVIV 8000 7000	29.3	43.9	46.2	47.9	49.3	49.5	50.0	50.3	50.3	50.4	50.5	50.5	50.5	50.5	50.5	50.5
IVIV 6000 5000	30.2	46.1	48.6	50.4	52.0	52.2	52.7	53.0	53.0	53.1	53.1	53.1	53.1	53.2	53.2	53.2
IVIV 4500 4000	31.6	48.1	50.9	52.8	54.5	54.8	55.2	55.6	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7
IVIV 3500 3000	32.4	49.6	52.4	54.5	56.4	56.6	57.1	57.4	57.4	57.5	57.5	57.5	57.5	57.6	57.6	57.6
IVIV 2500 2000	33.2	51.5	54.4	56.9	58.9	59.3	59.8	60.2	60.2	60.3	60.4	60.4	60.4	60.4	60.4	60.4
IVIV 1800 1500	33.3	52.5	55.6	58.2	60.3	60.7	61.2	61.6	61.6	61.7	61.8	61.8	61.8	61.8	61.8	61.8
IVIV 1200 1000	34.0	54.0	57.2	60.0	62.1	62.5	63.1	63.4	63.4	63.6	63.6	63.6	63.6	63.7	63.7	63.7
IVIV 900 800	34.9	55.7	59.1	62.0	64.6	65.0	65.6	66.0	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2
IVIV 700 600	37.0	59.4	62.9	66.0	68.8	69.3	70.0	70.5	70.5	70.6	70.7	70.7	70.7	70.7	70.7	70.7
IVIV 500 400	38.8	63.7	67.7	71.3	74.3	74.9	75.8	76.3	76.3	76.5	76.7	76.7	76.7	76.7	76.7	76.7
IVIV 300 200	39.2	65.2	69.4	72.9	76.1	76.8	77.8	78.3	78.3	78.6	78.7	78.7	78.7	78.7	78.7	78.7
IVIV 100 0	40.6	68.1	72.5	76.2	79.7	80.4	81.6	82.2	82.3	82.7	82.8	82.8	82.8	82.8	82.8	82.8
IVIV 0	41.3	70.5	75.0	79.2	83.1	84.0	85.2	86.0	86.0	86.5	86.6	86.6	86.6	86.6	86.6	86.6
IVIV 0	41.6	71.8	76.4	81.1	85.3	86.3	87.6	88.5	88.5	88.9	89.1	89.1	89.1	89.2	89.2	89.2
IVIV 0	41.8	72.2	77.0	81.9	86.2	87.1	88.8	89.9	90.0	90.5	90.7	90.7	90.7	90.8	90.8	90.8
IVIV 0	41.9	73.1	78.1	83.0	87.5	88.5	90.4	91.7	91.8	92.3	92.5	92.5	92.5	92.5	92.5	92.5
IVIV 0	42.1	73.4	78.5	83.7	88.4	89.4	91.4	92.9	93.0	93.5	93.7	93.7	93.8	93.8	93.8	93.8
IVIV 0	42.2	73.9	79.2	84.6	89.7	90.8	93.2	95.1	95.2	95.9	96.2	96.2	96.2	96.3	96.3	96.3
IVIV 0	42.2	74.0	79.5	85.0	90.3	91.4	94.1	96.1	96.2	97.1	97.4	97.4	97.5	97.6	97.6	97.6
IVIV 0	42.2	74.1	79.7	85.1	90.5	91.6	94.6	96.8	96.9	97.9	98.2	98.2	98.4	98.5	98.5	98.5
IVIV 0	42.2	74.2	79.7	85.2	90.6	91.7	94.8	96.9	97.2	98.4	99.0	99.0	99.1	99.2	99.3	99.3
IVIV 0	42.2	74.2	79.7	85.2	90.6	91.7	94.8	96.9	97.2	98.4	99.0	99.1	99.3	99.4	99.5	99.5
IVIV 0	42.2	74.2	79.7	85.2	90.6	91.7	94.8	96.9	97.2	98.4	99.0	99.1	99.4	99.5	99.6	99.6
IVIV 0	42.2	74.2	79.7	85.2	90.6	91.7	94.8	96.9	97.2	98.4	99.1	99.1	99.4	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1863

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13227  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	29.7	36.2	37.2	37.6	37.6	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
≥ 20000	27.5	46.1	47.3	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IVV 18000	37.9	46.5	47.7	48.3	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
16000	38.1	46.7	47.9	48.5	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
IVV 14000	38.6	47.7	49.0	49.7	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
12000	39.3	49.3	50.7	51.3	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IVV 10000	40.5	51.7	52.4	53.1	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
9000	41.1	51.7	53.1	53.9	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IVV 8000	41.9	53.5	54.9	55.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
7000	43.1	55.2	56.6	57.5	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IVV 6000	43.3	55.9	57.3	58.2	58.6	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
5000	43.8	57.1	58.5	59.5	59.9	60.1	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IVV 4500	44.2	57.6	59.2	60.4	60.9	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
4000	45.2	59.3	61.1	62.5	63.1	63.3	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IVV 3500	46.4	61.4	63.4	64.9	65.6	65.8	66.0	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1
3000	48.1	64.4	66.5	68.2	69.1	69.4	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IVV 2500	51.1	68.8	70.9	72.7	73.8	74.1	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
2000	52.4	74.1	76.4	78.2	79.5	79.9	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IVV 1800	52.6	74.9	77.5	79.3	80.8	81.1	81.5	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7
1500	53.5	77.1	80.0	82.2	83.5	83.9	84.4	84.5	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IVV 1200	54.2	79.8	83.2	85.4	87.7	88.1	88.8	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3
1000	54.6	81.1	84.6	87.2	89.8	90.5	91.2	91.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IVV 900	54.7	81.4	85.1	88.0	90.9	91.6	92.5	93.1	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4
800	54.7	81.7	85.6	88.8	92.0	92.7	93.8	94.4	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8
IVV 700	54.8	82.0	85.9	89.2	92.7	93.4	94.6	95.4	95.4	95.9	95.9	95.9	95.9	96.0	96.0	96.0
600	54.8	82.3	86.4	89.7	93.4	94.1	95.4	96.3	96.3	96.8	96.8	96.8	96.8	96.9	96.9	96.9
IVV 500	54.8	82.3	86.4	90.0	93.7	94.5	96.1	97.2	97.3	97.9	98.0	98.0	98.0	98.1	98.2	98.2
400	54.8	82.3	86.4	90.1	93.9	94.7	96.5	97.8	97.9	98.7	98.8	98.8	98.8	98.9	99.0	99.1
IVV 300	54.8	82.4	86.5	90.1	94.1	94.9	96.8	98.2	98.2	99.1	99.2	99.2	99.2	99.4	99.4	99.5
200	54.8	82.4	86.5	90.1	94.1	94.9	96.8	98.3	98.3	99.2	99.3	99.3	99.3	99.5	99.6	99.7
IVV 100	54.8	82.4	86.5	90.1	94.1	94.9	96.8	98.3	98.3	99.2	99.3	99.3	99.3	99.6	99.7	99.8
0	54.9	82.4	86.5	90.2	94.1	95.0	96.9	98.3	98.4	99.3	99.4	99.4	99.4	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 1362

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	31.8 38.4	39.5 48.6	40.3 49.4	40.6 51.2	40.7 52.2	40.7 52.2	40.9 52.4	41.0 52.5	41.0 50.5	41.0 50.5	41.0 50.5	41.0 50.5	41.0 50.5	41.0 50.5	41.0 50.5	41.0 50.5
IVIV 18000 16000	38.6 38.9	48.9 49.2	49.7 50.0	50.2 51.6	50.5 52.8	50.5 52.8	50.7 51.2	50.8 51.1	50.8 51.1	50.8 51.1	50.8 51.1	50.8 51.1	50.8 51.1	50.8 51.1	50.8 51.1	50.8 51.1
IVIV 14000 12000	40.1 41.4	50.6 52.7	51.4 53.5	52.2 54.1	52.2 54.4	52.2 54.4	52.4 54.5	52.5 54.6	52.5 54.6	52.5 54.6	52.5 54.6	52.5 54.6	52.5 54.6	52.5 54.6	52.5 54.6	52.5 54.6
IVIV 10000 9000	42.3 43.2	54.1 55.1	55.0 56.0	55.6 56.7	55.9 57.2	55.9 57.2	56.1 57.3	56.2 57.3	56.2 57.3	56.2 57.3	56.2 57.3	56.2 57.3	56.2 57.3	56.2 57.3	56.2 57.3	56.2 57.3
IVIV 8000 7000	44.3 45.5	57.0 58.8	57.9 59.7	58.6 60.5	58.8 60.9	58.9 61.2	59.1 61.1	59.2 61.2	59.2 61.2	59.2 61.2	59.2 61.2	59.2 61.2	59.2 61.2	59.2 61.2	59.2 61.2	59.2 61.2
IVIV 6000 5000	46.3 47.3	60.0 62.3	60.9 63.6	61.8 64.5	62.2 64.9	62.3 65.2	62.5 65.3	62.6 65.3	62.6 65.3	62.6 65.3	62.6 65.3	62.6 65.3	62.6 65.3	62.6 65.3	62.6 65.3	62.6 65.3
IVIV 4500 4000	48.1 49.2	63.3 65.4	64.6 66.7	65.6 67.7	66.0 68.2	66.1 68.3	66.5 68.7	66.6 68.9	66.6 68.9	66.6 68.9	66.6 68.9	66.6 68.9	66.6 68.9	66.6 68.9	66.6 68.9	66.6 68.9
IVIV 3500 3000	50.2 51.9	67.1 70.1	68.6 71.6	69.8 72.8	70.3 73.4	70.4 73.5	70.8 74.0	71.0 74.3	71.0 74.3	71.0 74.4	71.0 74.6	71.0 74.6	71.0 74.6	71.0 74.6	71.0 74.6	71.0 74.6
IVIV 2500 2000	53.3 54.6	73.3 76.3	74.9 78.2	76.4 79.9	77.2 81.0	77.3 81.2	77.8 81.9	78.2 82.2	78.2 82.2	78.3 82.4	78.5 82.6	78.5 82.6	78.5 82.6	78.5 82.6	78.5 82.6	78.5 82.6
IVIV 1800 1500	54.7 55.1	76.9 78.4	78.8 80.6	80.6 82.6	81.9 84.2	82.1 84.4	82.9 85.6	83.3 85.9	83.3 85.9	83.4 86.1	83.6 86.3	83.6 86.3	83.6 86.3	83.6 86.3	83.6 86.3	83.6 86.3
IVIV 1200 1000	55.7 55.8	80.7 81.7	83.2 84.4	85.7 87.1	87.9 89.6	88.1 90.0	89.4 91.4	89.9 91.9	89.9 91.9	90.1 92.2	90.3 92.4	90.3 92.4	90.3 92.4	90.3 92.4	90.3 92.4	90.3 92.4
IVIV 900 800	56.1 56.1	82.2 82.6	85.2 85.7	88.1 88.6	90.8 91.4	91.2 91.8	92.6 93.7	93.2 94.4	93.2 94.4	93.5 94.7	93.7 94.9	93.7 94.9	93.7 94.9	93.7 94.9	93.7 94.9	93.7 94.9
IVIV 700 600	56.1 56.1	82.7 82.9	85.9 86.2	89.0 89.4	91.9 92.4	92.4 93.0	94.6 95.6	95.4 96.7	95.4 96.7	95.7 97.0	95.9 97.3	95.9 97.3	95.9 97.3	95.9 97.3	95.9 97.3	95.9 97.3
IVIV 500 400	56.1 56.1	82.9 83.1	86.2 86.3	89.5 89.7	92.4 92.9	93.2 93.8	96.2 96.8	97.5 98.3	97.5 98.4	97.9 98.9	98.1 99.2	98.1 99.2	98.1 99.2	98.1 99.4	98.1 99.4	98.1 99.4
IVIV 300 200	56.1 56.1	83.0 83.0	86.3 86.3	89.7 89.7	93.0 93.0	93.8 93.8	97.0 97.0	98.5 98.5	98.6 98.6	99.1 99.1	99.5 99.6	99.5 99.6	99.5 99.6	99.7 99.8	99.7 99.8	99.7 99.8
IVIV 100 0	56.1 56.1	83.0 83.0	86.3 86.3	89.7 89.7	93.0 93.0	93.8 93.8	97.0 97.0	98.5 98.5	98.6 98.6	99.1 99.1	99.6 99.6	99.6 99.6	99.6 99.6	99.8 99.8	99.8 99.8	99.8 99.8

TOTAL NUMBER OF OBSERVATIONS 1863

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	31.1 35.4	42.6 49.8	43.6 51.0	44.5 52.1	44.7 52.3	44.8 52.3	45.0 52.5	45.1 52.7	45.1 52.7	45.2 52.9	45.2 52.9	45.2 52.9	45.3 52.9	45.3 52.9	45.3 52.9	45.3 52.9
IV 18000 16000	35.4 35.4	49.9 51.1	51.2 51.4	52.2 52.4	52.4 52.7	52.5 52.7	52.7 52.9	52.9 53.1	52.9 53.1	53.0 53.2	53.0 53.2	53.0 53.2	53.1 53.3	53.1 53.3	53.1 53.3	53.1 53.3
IV 14000 12000	36.6 37.5	51.9 53.5	53.2 54.9	54.3 56.0	54.5 56.3	54.6 56.3	54.8 56.5	55.0 56.7	55.0 56.7	55.1 56.8	55.1 56.8	55.1 56.8	55.2 56.9	55.2 56.9	55.2 56.9	55.2 56.9
IV 10000 9000	38.6 39.2	55.6 56.7	57.1 58.3	58.3 59.5	58.6 59.7	58.6 59.8	58.8 60.1	59.0 61.2	59.0 61.2	59.2 60.4	59.2 60.4	59.2 60.4	59.2 60.5	59.2 60.5	59.2 60.5	59.2 60.5
IV 8000 7000	40.2 41.7	58.3 59.9	59.9 61.9	61.1 63.2	61.5 63.6	61.5 63.6	61.8 63.9	61.9 64.0	61.9 64.3	62.2 64.3	62.2 64.3	62.2 64.3	62.2 64.3	62.2 64.3	62.2 64.3	62.2 64.3
IV 6000 5000	41.9 42.8	61.5 63.4	63.6 65.7	64.9 67.3	65.3 67.8	65.3 67.8	65.6 68.2	65.8 68.3	65.8 68.3	66.1 68.7	66.1 68.7	66.1 68.7	66.1 68.7	66.1 68.7	66.1 68.7	66.1 68.7
IV 4500 4000	43.9 44.8	65.4 67.4	67.8 70.0	69.5 71.8	69.9 72.2	70.0 72.3	70.3 72.7	70.5 72.9	70.5 72.9	70.8 73.2	70.8 73.2	70.8 73.2	70.9 73.3	70.9 73.3	70.9 73.3	70.9 73.3
IV 3500 3000	45.5 45.8	69.2 70.3	72.0 73.5	74.0 75.8	74.6 76.5	74.6 76.5	75.0 77.0	75.2 77.2	75.2 77.2	75.5 77.5	75.5 77.5	75.5 77.5	75.6 77.6	75.6 77.6	75.6 77.6	75.6 77.6
IV 2500 2000	46.5 47.2	72.3 74.1	75.7 78.0	78.2 81.1	79.1 82.5	79.2 82.7	79.7 83.6	79.9 83.8	79.9 83.8	80.2 84.2	80.2 84.2	80.2 84.2	80.2 84.2	80.2 84.2	80.2 84.2	80.2 84.2
IV 1800 1500	47.5 47.6	74.7 75.8	78.7 80.6	81.9 84.2	83.4 86.0	83.6 86.2	84.5 87.2	84.8 87.4	84.8 87.4	85.1 87.9	85.1 87.9	85.1 87.9	85.2 87.9	85.2 87.9	85.2 87.9	85.2 87.9
IV 1200 1000	47.8 47.9	77.5 78.0	82.5 83.2	86.6 87.4	89.0 90.1	89.2 90.3	90.4 91.7	90.8 92.1	90.8 92.1	91.4 92.7	91.4 92.7	91.4 92.7	91.5 92.8	91.5 92.8	91.5 92.8	91.5 92.8
IV 900 800	48.0 48.1	78.5 78.7	83.8 84.3	88.2 88.7	91.1 91.9	91.4 92.2	93.0 94.0	93.3 94.4	93.3 94.4	94.0 95.1	94.0 95.1	94.0 95.1	94.0 95.1	94.0 95.1	94.0 95.1	94.0 95.1
IV 700 600	48.2 48.2	79.0 79.0	84.5 84.6	88.9 89.1	92.3 92.6	92.9 93.3	94.7 95.7	95.1 96.2	95.3 96.5	96.1 97.3	96.1 97.3	96.1 97.3	96.1 97.4	96.1 97.4	96.1 97.4	96.1 97.4
IV 500 400	48.2 48.2	79.0 79.1	84.7 84.8	89.2 89.4	92.9 93.3	93.7 94.1	96.2 96.9	96.9 97.6	97.1 97.9	98.1 99.0	98.1 99.0	98.1 99.0	98.2 99.1	98.2 99.1	98.2 99.1	98.2 99.1
IV 300 200	48.2 48.2	79.1 79.1	84.8 84.8	89.4 89.4	93.4 93.4	94.3 94.3	97.0 97.0	97.7 97.7	98.0 98.0	99.1 99.1	99.3 99.4	99.3 99.4	99.4 99.5	99.4 99.5	99.6 99.7	99.6 99.7
IV 100 0	48.2 48.2	79.1 79.1	84.8 84.8	89.4 89.4	93.4 93.4	94.3 94.3	97.0 97.0	97.7 97.7	98.0 98.0	99.2 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.6 99.8	99.8 99.8	99.8 100.0

TOTAL NUMBER OF OBSERVATIONS 1863

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28901

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	27.4 29.6	42.4 46.7	44.4 49.1	45.2 50.1	46.0 51.1	46.0 51.0	46.2 51.3	46.4 51.6	46.4 51.6	46.5 51.7	46.6 51.8	46.6 51.8	46.6 51.8	46.6 51.8	46.6 51.8	46.6 51.8
IVV 18000 16000	29.8 29.9	46.9 47.3	49.4 49.7	51.4 51.8	51.2 51.6	51.3 51.7	51.6 51.9	51.9 52.3	51.9 52.3	52.0 52.4	52.0 52.4	52.0 52.4	52.0 52.4	52.0 52.4	52.0 52.4	52.0 52.4
IVV 14000 12000	30.5 31.5	48.4 51.2	51.0 52.8	52.1 54.0	53.1 55.1	53.1 55.1	53.4 55.4	53.7 55.7	53.7 55.7	53.8 55.8	53.9 55.9	53.9 55.9	53.9 55.9	53.9 55.9	53.9 55.9	53.9 55.9
IVV 10000 9000	32.9 33.5	53.3 54.4	56.0 57.1	57.2 58.3	58.2 59.4	58.3 59.5	58.6 59.8	58.9 60.1	58.9 60.1	59.0 60.2	59.1 60.3	59.1 60.3	59.1 60.3	59.1 60.3	59.1 60.3	59.1 60.3
IVV 8000 7000	35.1 35.9	56.9 58.5	59.8 61.5	61.1 63.2	62.3 64.5	62.4 64.6	62.7 64.9	63.1 65.3	63.1 65.3	63.2 65.4	63.3 65.5	63.3 65.5	63.3 65.5	63.3 65.5	63.3 65.5	63.3 65.5
IVV 6000 5000	36.8 37.3	60.1 62.3	63.1 65.4	64.9 67.5	66.2 68.9	66.3 69.2	66.7 69.4	67.0 69.7	67.0 69.9	67.2 70.1	67.3 70.1	67.3 70.1	67.3 70.1	67.3 70.1	67.3 70.1	67.4 70.2
IVV 4500 4000	38.4 38.8	63.7 64.9	67.2 68.5	69.3 70.7	70.8 72.3	70.9 72.4	71.3 72.7	71.6 73.1	71.6 73.1	71.8 73.2	72.0 73.4	72.0 73.4	72.0 73.4	72.0 73.4	72.0 73.4	72.0 73.5
IVV 3500 3000	39.2 39.7	66.3 67.6	70.1 71.6	72.4 74.2	74.0 75.9	74.1 76.3	74.6 76.5	74.9 76.8	74.9 76.8	75.1 76.9	75.3 77.2	75.3 77.2	75.3 77.2	75.3 77.2	75.3 77.2	75.3 77.2
IVV 2500 2000	40.4 41.5	69.4 72.1	73.4 76.5	76.2 79.8	78.0 81.9	78.2 82.2	78.7 82.8	79.0 83.2	79.0 83.2	79.2 83.3	79.4 83.5	79.4 83.5	79.4 83.5	79.4 83.5	79.4 83.5	79.5 83.6
IVV 1800 1500	41.6 41.7	72.9 74.1	77.4 79.2	80.8 83.1	83.1 85.6	83.4 86.0	84.1 86.8	84.5 87.2	84.5 87.2	84.6 87.4	84.8 87.6	84.8 87.6	84.8 87.6	84.8 87.6	84.8 87.6	84.9 87.7
IVV 1200 1000	41.7 41.8	75.3 76.0	80.7 81.6	85.2 86.2	88.2 89.5	88.6 89.8	89.4 90.9	89.8 91.5	89.8 91.5	90.1 91.7	90.3 92.0	90.3 92.0	90.3 92.0	90.3 92.0	90.3 92.0	90.4 92.1
IVV 900 800	41.9 41.9	76.8 77.1	82.4 82.7	87.3 87.7	90.6 91.3	91.0 91.8	92.2 93.1	92.7 93.7	92.7 93.7	93.1 94.0	93.3 94.2	93.3 94.3	93.4 94.4	93.4 94.4	93.4 94.4	93.4 94.4
IVV 700 600	41.9 41.9	77.2 77.4	83.1 83.4	88.2 88.7	92.0 92.9	92.7 93.6	94.1 95.1	94.8 95.9	94.8 96.0	95.2 96.3	95.4 96.6	95.4 96.6	95.5 96.7	95.5 96.7	95.5 96.7	95.5 96.7
IVV 500 400	41.9 41.9	77.6 77.6	83.7 83.8	89.0 89.2	93.4 93.7	94.3 94.6	96.1 96.5	96.9 97.5	96.9 97.5	97.6 98.3	97.8 98.5	97.9 98.6	98.0 98.7	98.0 98.7	98.0 98.7	98.0 98.8
IVV 300 200	41.9 41.9	77.6 77.6	83.8 83.8	89.2 89.2	93.8 93.8	94.8 94.8	96.7 96.7	97.8 98.0	97.8 98.1	98.7 98.9	99.0 99.2	99.0 99.3	99.1 99.4	99.1 99.5	99.1 99.5	99.2 99.6
IVV 100 0	41.9 41.9	77.6 77.6	83.8 83.8	89.2 89.2	93.8 93.8	94.8 94.8	96.7 96.7	98.0 98.0	98.1 98.1	98.9 98.9	99.2 99.3	99.3 99.3	99.4 99.4	99.5 99.5	99.5 99.5	99.6 100.0

TOTAL NUMBER OF OBSERVATIONS 1860

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STAT ON NAME

43-45,47,49-66  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	7.5	43.7	45.4	45.9	46.1	46.1	46.2	46.2	46.2	46.3	46.3	46.3	46.4	46.4	46.4	46.5
IV 20000	29.9	48.4	51.4	51.5	51.8	51.8	51.9	51.9	51.9	52.0	52.0	52.0	52.1	52.1	52.1	52.2
IV 18000	31.2	48.9	51.9	52.0	52.3	52.3	52.4	52.4	52.4	52.5	52.5	52.5	52.5	52.5	52.6	52.6
IV 16000	31.4	49.3	51.3	52.4	52.7	52.7	52.8	52.8	52.8	52.9	52.9	52.9	53.0	53.0	53.0	53.1
IV 14000	31.1	51.5	52.5	53.7	54.1	54.1	54.1	54.1	54.1	54.2	54.2	54.2	54.3	54.3	54.3	54.3
IV 12000	32.1	52.2	54.4	55.5	55.9	55.9	56.0	56.0	56.0	56.1	56.1	56.1	56.2	56.2	56.2	56.3
IV 10000	32.3	54.1	56.1	57.2	57.6	57.6	57.7	57.7	57.7	57.8	57.8	57.8	57.9	57.9	57.9	58.0
IV 9000	33.7	55.2	57.3	58.5	58.8	58.8	58.9	58.9	58.9	59.0	59.0	59.0	59.1	59.1	59.1	59.2
IV 8000	35.5	58.3	61.6	61.8	62.3	62.3	62.4	62.4	62.4	62.5	62.5	62.5	62.6	62.6	62.6	62.7
IV 7000	37.1	62.2	64.7	66.3	66.5	66.5	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.9	67.0
IV 6000	37.8	64.3	66.8	68.3	68.9	69.0	69.2	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.4	69.5
IV 5000	38.2	65.8	68.9	72.5	71.4	71.4	71.6	71.7	71.7	71.8	71.8	71.8	71.9	71.9	72.0	72.1
IV 4500	38.5	67.2	71.4	72.3	72.9	72.9	73.1	73.2	73.3	73.4	73.4	73.4	73.4	73.4	73.5	73.6
IV 4000	39.5	68.9	72.3	74.0	74.9	75.0	75.3	75.4	75.4	75.5	75.5	75.5	75.6	75.6	75.7	75.8
IV 3500	40.1	71.8	74.2	76.0	77.0	77.1	77.5	77.6	77.6	77.7	77.7	77.7	77.8	77.8	77.9	78.0
IV 3000	40.6	72.7	76.4	78.4	79.5	79.6	80.0	80.1	80.1	80.2	80.3	80.3	80.3	80.3	80.4	80.5
IV 2500	41.1	74.6	78.4	81.5	81.7	81.8	82.2	82.3	82.3	82.5	82.5	82.5	82.6	82.6	82.6	82.7
IV 2000	41.7	77.2	81.6	83.8	85.5	85.6	86.2	86.4	86.4	86.6	86.6	86.6	86.7	86.7	86.8	86.9
IV 1800	41.8	77.9	82.5	84.8	86.5	86.6	87.1	87.3	87.4	87.5	87.6	87.6	87.6	87.6	87.7	87.8
IV 1500	42.4	79.5	84.2	86.6	88.4	88.5	89.2	89.4	89.4	89.6	89.6	89.6	89.7	89.7	89.8	89.9
IV 1200	42.5	81.9	85.9	88.5	90.5	90.8	91.6	92.1	92.0	92.2	92.3	92.3	92.3	92.3	92.4	92.5
IV 1000	42.6	81.6	86.8	89.6	91.7	92.0	93.2	93.5	93.5	93.7	93.8	93.8	93.9	93.9	94.0	94.1
IV 900	42.7	82.1	87.2	90.2	92.2	92.5	93.7	94.1	94.2	94.4	94.4	94.4	94.5	94.5	94.7	94.8
IV 800	42.7	82.2	87.5	90.6	92.7	93.1	94.3	94.8	94.8	95.0	95.1	95.1	95.2	95.2	95.4	95.5
IV 700	42.7	82.2	87.7	90.9	93.2	93.5	94.9	95.5	95.5	95.7	95.8	95.8	95.9	95.9	96.1	96.2
IV 600	42.7	82.5	88.0	91.3	93.7	94.2	95.6	96.1	96.2	96.4	96.5	96.5	96.7	96.7	96.8	96.9
IV 500	42.7	82.5	88.2	91.7	94.3	94.8	96.5	97.1	97.2	97.6	97.7	97.7	97.9	97.9	98.1	98.2
IV 400	42.7	82.6	88.3	91.9	94.6	95.2	96.9	97.6	97.6	98.0	98.1	98.1	98.5	98.5	98.6	98.7
IV 300	42.7	82.6	88.4	92.0	94.8	95.4	97.2	97.9	97.9	98.4	98.5	98.5	99.1	99.1	99.3	99.4
IV 200	42.7	82.6	88.4	92.0	94.8	95.4	97.3	98.0	98.0	98.6	98.7	98.7	99.4	99.4	99.6	99.7
IV 100	42.7	82.6	88.4	92.0	94.8	95.4	97.3	98.0	98.0	98.6	98.7	98.7	99.4	99.4	99.6	99.8
IV 0	42.7	82.6	88.4	92.0	94.8	95.4	97.3	98.0	98.0	98.6	98.7	98.7	99.4	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

MAR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

C300-C500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	22.2 24.4	39.9 43.9	41.4 45.9	42.6 47.4	43.3 48.1	43.4 48.2	43.6 48.4	43.8 48.6	43.8 48.6	43.9 48.7	43.9 48.7	43.9 48.7	44.0 48.8	44.0 48.8	44.2 48.9	44.3 49.0
IVV 18000 16000	24.7 24.8	44.4 44.7	46.4 46.7	47.9 48.4	48.6 49.1	48.7 49.2	48.9 49.4	49.0 49.6	49.0 49.6	49.1 49.6	49.1 49.6	49.1 49.6	49.2 49.7	49.2 49.7	49.4 49.9	49.5 50.0
IVV 14000 12000	25.1 25.7	45.6 47.0	47.6 49.2	49.2 51.1	50.0 51.9	50.1 52.0	50.3 52.2	50.5 52.5	50.5 52.5	50.6 52.5	50.6 52.6	50.6 52.6	50.7 52.6	50.7 52.6	50.9 52.8	51.0 52.9
IVV 10000 9000	26.8 27.2	48.7 49.5	51.0 51.8	53.0 53.8	53.7 54.6	53.8 54.7	54.1 55.0	54.4 55.3	54.4 55.3	54.4 55.3	54.5 55.4	54.5 55.4	54.6 55.5	54.6 55.5	54.8 55.6	54.9 55.7
IVV 8000 7000	28.7 30.2	52.4 55.1	54.7 57.8	56.9 59.7	57.7 60.8	57.8 61.0	58.2 61.4	58.5 61.6	58.5 61.6	58.5 61.7	58.6 61.8	58.6 61.8	58.7 61.8	58.7 61.8	58.9 62.0	59.0 62.2
IVV 6000 5000	30.9 32.3	57.3 59.8	60.1 62.8	62.4 65.1	63.4 66.2	63.7 66.4	64.2 66.9	64.4 67.1	64.4 67.1	64.4 67.2	64.6 67.3	64.6 67.3	64.6 67.4	64.6 67.4	64.8 67.6	65.0 67.7
IVV 4500 4000	32.3 33.5	61.2 63.1	64.3 66.3	66.7 68.7	67.8 70.8	68.1 70.1	68.6 70.6	68.8 70.8	68.8 70.8	68.9 70.9	69.0 71.0	69.0 71.0	69.0 71.1	69.0 71.1	69.2 71.2	69.4 71.4
IVV 3500 3000	34.2 35.1	64.5 66.7	67.8 70.1	70.3 72.8	71.5 74.0	71.8 74.4	72.3 74.9	72.5 75.2	72.5 75.2	72.6 75.2	72.7 75.4	72.7 75.4	72.8 75.4	72.8 75.4	73.0 75.6	73.1 75.7
IVV 2500 2000	35.6 36.4	69.1 72.6	73.1 76.7	75.9 79.9	77.4 81.5	77.6 81.9	78.3 82.4	78.5 82.6	78.5 82.6	78.6 82.7	78.7 82.9	78.7 82.9	78.8 83.0	78.8 83.0	79.0 83.2	79.1 83.4
IVV 1800 1500	36.5 37.2	73.4 75.7	77.9 80.6	81.2 84.2	82.9 86.3	83.3 86.7	83.8 87.3	84.0 87.5	84.0 87.5	84.1 87.6	84.3 87.8	84.3 87.8	84.4 87.9	84.4 87.9	84.6 88.1	84.7 88.3
IVV 1200 1000	37.4 37.5	77.1 78.2	82.2 83.6	86.0 87.5	88.4 90.0	88.8 90.4	89.5 91.2	89.9 91.6	89.9 91.6	89.9 91.7	90.1 91.9	90.2 91.9	90.3 92.0	90.3 92.0	90.5 92.3	90.6 92.4
IVV 900 800	37.5 37.6	78.4 78.6	84.0 84.3	88.2 88.8	90.7 91.2	91.1 91.8	92.0 93.0	92.4 93.4	92.4 93.4	92.5 93.5	92.7 93.7	92.8 93.8	92.9 93.9	92.9 93.9	93.1 94.1	93.3 94.3
IVV 700 600	37.6 37.7	78.9 79.3	84.8 85.4	89.5 90.3	92.0 93.0	92.6 93.6	93.8 95.0	94.4 95.6	94.4 95.6	94.5 95.7	94.8 96.0	94.8 96.0	94.9 96.3	94.9 96.3	95.2 96.5	95.3 96.7
IVV 500 400	37.7 37.7	79.4 79.5	85.6 85.7	90.8 90.9	93.5 93.8	94.1 94.5	95.7 96.2	96.5 97.0	96.6 97.1	96.7 97.2	97.0 97.6	97.1 97.6	97.3 97.9	97.3 97.9	97.6 98.1	97.7 98.3
IVV 300 200	37.7 37.7	79.5 79.5	85.7 85.7	90.9 90.9	93.8 93.8	94.6 94.6	96.4 96.5	97.4 97.5	97.5 97.6	97.8 97.9	98.2 98.3	98.3 98.3	98.6 98.7	98.6 98.7	98.9 99.0	99.1 99.2
IVV 100 0	37.7 37.7	79.5 79.5	85.7 85.7	90.9 90.9	93.8 93.9	94.6 94.7	96.5 96.5	97.5 97.5	97.6 97.6	98.1 98.1	98.5 98.5	98.6 98.6	98.9 99.0	98.9 99.1	99.3 99.4	99.6 100.0

TOTAL NUMBER OF OBSERVATIONS 2045

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB 43-45, 47, 49-66 YEARS MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

C600-C800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	22.3	33.5	35.7	36.7	38.0	38.2	38.7	38.8	38.8	39.1	39.2	39.2	39.3	39.3	39.3	39.8
IV 20000	25.5	39.5	41.7	42.9	44.4	44.7	45.4	45.7	45.7	46.0	46.0	46.2	46.1	46.1	46.2	46.7
IV 18000	25.9	39.6	41.8	43.1	44.6	44.9	45.6	45.9	45.9	46.2	46.2	46.2	46.3	46.3	46.4	46.8
IV 16000	26.2	41.0	42.2	43.5	45.2	45.3	46.0	46.3	46.3	46.6	46.7	46.7	46.8	46.8	46.8	47.3
IV 14000	26.7	41.7	43.1	44.4	45.9	46.2	46.9	47.2	47.2	47.5	47.5	47.5	47.7	47.7	47.7	48.2
IV 12000	27.2	41.9	44.4	45.7	47.3	47.6	48.3	48.6	48.6	48.9	48.9	48.9	49.0	49.0	49.1	49.6
IV 10000	28.5	44.4	46.9	48.3	49.9	50.3	51.0	51.2	51.2	51.5	51.6	51.6	51.8	51.8	51.8	52.3
IV 9000	28.9	45.1	47.8	49.1	50.8	51.1	51.9	52.2	52.2	52.5	52.6	52.6	52.8	52.8	52.8	53.3
IV 8000	29.9	47.0	49.8	51.2	52.9	53.2	54.0	54.3	54.3	54.6	54.7	54.7	54.9	54.9	54.9	55.4
IV 7000	31.5	49.4	52.2	53.7	55.4	55.7	56.5	56.9	56.9	57.2	57.3	57.3	57.5	57.5	57.6	58.0
IV 6000	32.2	50.9	53.7	55.6	57.4	57.7	58.5	58.9	58.9	59.2	59.3	59.3	59.5	59.5	59.6	60.0
IV 5000	33.3	53.3	56.4	58.5	60.5	60.8	61.8	62.2	62.2	62.5	62.6	62.6	62.8	62.8	62.9	63.4
IV 4500	34.1	54.6	57.7	59.9	61.8	62.2	63.2	63.7	63.7	64.1	64.2	64.2	64.4	64.4	64.4	64.9
IV 4000	34.6	56.2	59.4	61.7	63.8	64.2	65.2	65.7	65.7	66.1	66.2	66.2	66.4	66.4	66.5	67.0
IV 3500	35.8	58.1	61.4	63.8	66.1	66.4	67.4	67.9	67.9	68.3	68.4	68.4	68.6	68.6	68.7	69.2
IV 3000	36.9	59.9	63.4	66.1	68.5	68.9	70.0	70.5	70.5	71.0	71.1	71.1	71.2	71.2	71.3	71.8
IV 2500	38.2	62.7	66.4	69.4	71.9	72.4	73.4	74.0	74.0	74.4	74.6	74.6	74.8	74.8	74.9	75.4
IV 2000	39.8	67.1	71.2	74.5	77.3	77.8	79.1	79.7	79.7	80.3	80.4	80.4	80.6	80.6	80.7	81.2
IV 1800	40.2	68.1	72.7	76.0	78.8	79.3	80.6	81.2	81.2	81.8	82.0	82.0	82.2	82.2	82.2	82.7
IV 1500	40.9	70.0	74.8	78.4	81.4	82.0	83.5	84.0	84.1	84.7	84.9	84.9	85.1	85.1	85.2	85.7
IV 1000	41.6	72.1	77.4	81.2	84.5	85.3	86.9	87.6	87.6	88.4	88.6	88.6	88.8	88.8	88.9	89.3
IV 900	41.9	73.3	79.1	83.4	87.1	87.9	89.9	90.7	90.8	91.6	91.8	91.8	92.0	92.0	92.1	92.6
IV 800	42.1	73.5	79.4	83.7	87.7	88.5	90.7	91.7	91.8	92.7	92.9	92.9	93.2	93.2	93.3	93.8
IV 700	42.1	73.8	79.8	84.1	88.6	89.4	91.8	93.1	93.2	94.1	94.3	94.3	94.6	94.6	94.7	95.2
IV 600	42.1	74.1	80.2	84.5	89.1	90.0	92.8	94.1	94.2	95.1	95.4	95.4	95.7	95.8	95.8	96.4
IV 500	42.1	74.3	80.5	84.8	89.6	90.7	93.7	95.3	95.5	96.7	96.9	96.9	97.4	97.4	97.4	97.9
IV 400	42.1	74.3	80.5	84.9	89.7	90.8	94.0	95.7	95.8	97.2	97.5	97.5	98.0	98.1	98.1	98.6
IV 300	42.1	74.4	80.5	84.9	89.9	91.0	94.2	96.0	96.2	97.8	98.0	98.0	98.6	98.7	98.9	99.4
IV 200	42.1	74.4	80.5	84.9	89.9	91.0	94.3	96.1	96.2	98.0	98.3	98.3	99.0	99.1	99.3	99.8
IV 100	42.1	74.4	80.5	84.9	89.9	91.0	94.3	96.1	96.2	98.0	98.3	98.3	99.0	99.1	99.3	99.9
IV 0	42.1	74.4	80.5	84.9	89.9	91.0	94.3	96.1	96.2	98.0	98.3	98.4	99.0	99.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 2045



DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

9900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	30.2	36.8	37.6	38.0	38.1	38.2	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
IV 20000	36.1	44.1	45.2	45.9	46.0	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
IV 18000	36.5	44.8	45.9	46.5	46.6	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IV 16000	36.7	45.1	46.2	46.8	46.9	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 14000	37.4	46.1	47.2	47.9	48.0	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
IV 12000	38.4	47.5	48.6	49.2	49.3	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 10000	39.9	49.6	50.7	51.3	51.5	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 9000	40.3	50.4	51.7	52.3	52.5	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 8000	41.6	52.3	53.7	54.4	54.5	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 7000	42.4	53.7	55.1	55.9	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
IV 6000	43.2	55.1	56.5	57.5	57.6	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
IV 5000	44.2	56.9	58.4	59.4	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
IV 4500	44.9	57.9	59.4	60.6	61.0	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
IV 4000	46.4	60.1	61.7	63.0	63.6	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
IV 3500	48.0	62.5	64.3	65.6	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 3000	50.1	66.1	68.0	69.4	70.1	70.2	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IV 2500	52.9	70.7	72.8	74.2	75.1	75.2	75.4	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IV 2000	55.5	75.7	78.4	80.0	80.8	81.2	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
IV 1800	55.8	77.1	80.1	81.6	82.6	82.7	82.9	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1
IV 1500	56.3	80.0	83.3	85.2	86.5	86.6	86.9	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 1200	57.3	82.8	86.5	88.6	90.5	90.6	91.0	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 1000	57.6	83.9	87.9	90.2	92.3	92.5	92.9	93.2	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IV 900	57.6	84.3	88.5	91.1	93.3	93.4	94.0	94.3	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 800	57.7	84.7	89.2	91.8	94.1	94.4	95.1	95.6	95.6	96.0	96.1	96.1	96.1	96.1	96.1	96.1
IV 700	57.7	84.9	89.6	92.4	94.9	95.3	96.2	96.8	96.9	97.4	97.5	97.5	97.5	97.5	97.5	97.5
IV 600	57.7	84.9	89.7	92.5	95.2	95.6	96.5	97.2	97.3	97.8	97.9	97.9	98.1	98.1	98.1	98.1
IV 500	57.7	85.1	89.8	92.9	95.7	96.1	97.2	97.9	98.3	98.9	99.1	99.1	99.2	99.2	99.2	99.2
IV 400	57.8	85.2	89.9	93.0	95.9	96.4	97.6	98.3	98.4	99.3	99.6	99.6	99.8	99.8	99.8	99.8
IV 300	57.8	85.2	89.9	93.0	95.9	96.4	97.6	98.3	98.5	99.4	99.7	99.7	100.0	100.0	100.0	100.0
IV 200	57.8	85.2	89.9	93.0	95.9	96.4	97.6	98.3	98.5	99.4	99.7	99.7	100.0	100.0	100.0	100.0
IV 100	57.8	85.2	89.9	93.0	95.9	96.4	97.6	98.3	98.5	99.4	99.7	99.7	100.0	100.0	100.0	100.0
IV 0	57.8	85.2	89.9	93.0	95.9	96.4	97.6	98.3	98.5	99.4	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2541

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13927 SMYRNA TENNESSEE/SEWART AFB

43-45,47,49-66

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	24.3 42.5	37.7 47.1	38.0 47.4	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5	38.0 47.5
IVIV 18000 16000	42.9 43.6	47.6 48.3	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6	47.9 48.6
IVIV 14000 12000	44.2 45.5	48.9 50.5	49.2 50.8	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9	49.2 50.9
IVIV 10000 9000	46.8 47.4	52.2 53.2	52.5 53.5	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6	52.6 53.6
IVIV 8000 7000	48.6 49.9	55.0 57.2	55.5 57.7	55.6 57.8	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9	55.7 57.9
IVIV 6000 5000	50.8 51.8	58.4 60.3	58.9 60.8	59.1 61.2	59.2 61.3	59.3 61.4	59.3 61.4	59.3 61.4	59.3 61.4	59.3 61.4	59.3 61.4	59.3 61.4	59.3 61.4	59.3 61.4	59.3 61.4	59.3 61.4
IVIV 4500 4000	53.3 55.7	61.9 65.1	62.5 66.0	62.8 66.5	63.1 66.9	63.1 66.9	63.2 67.0	63.2 67.0	63.2 67.0	63.2 67.0	63.2 67.0	63.2 67.0	63.2 67.0	63.2 67.0	63.2 67.0	63.2 67.0
IVIV 3500 3000	58.1 59.9	68.3 71.5	69.3 72.7	69.8 73.2	70.2 73.6	70.2 73.7	70.3 73.8	70.3 73.9	70.3 73.9	70.3 73.9	70.3 73.9	70.3 73.9	70.3 73.9	70.3 73.9	70.3 73.9	70.3 73.9
IVIV 2500 2000	52.8 54.7	76.6 81.2	77.9 82.7	78.5 83.4	79.0 84.7	79.1 84.2	79.1 84.2	79.2 84.4	79.2 84.4	79.3 84.4	79.3 84.4	79.3 84.4	79.3 84.4	79.3 84.4	79.3 84.4	79.3 84.4
IVIV 1800 1500	65.1 65.9	82.2 84.4	84.1 86.7	84.8 87.7	85.6 88.6	85.7 88.8	85.8 89.0	85.9 89.2	85.9 89.2	86.0 89.2	86.0 89.2	86.0 89.2	86.0 89.2	86.0 89.2	86.0 89.2	86.0 89.2
IVIV 1200 1000	66.4 66.5	86.7 87.5	89.3 90.3	90.8 91.9	92.1 93.4	92.3 93.6	92.7 94.2	93.0 94.5	93.0 94.5	93.0 94.6	93.0 94.6	93.0 94.6	93.0 94.7	93.0 94.7	93.0 94.7	93.0 94.7
IVIV 900 800	66.5 66.6	87.7 88.2	90.7 91.2	92.3 93.0	93.9 94.6	94.2 94.9	94.8 95.7	95.1 96.0	95.1 96.0	95.2 96.3	95.2 96.3	95.2 96.3	95.2 96.4	95.3 96.4	95.3 96.4	95.3 96.4
IVIV 700 600	66.6 66.6	88.4 88.4	91.4 91.6	93.2 93.5	95.1 95.4	95.4 95.7	96.5 97.0	97.0 97.7	97.0 97.8	97.3 98.3	97.3 98.4	97.3 98.4	97.4 98.7	97.4 98.7	97.4 98.7	97.4 98.7
IVIV 500 400	66.6 66.6	88.4 88.4	91.7 91.7	93.6 93.7	95.9 96.0	96.2 96.3	97.6 97.7	98.3 98.5	98.4 98.6	99.1 99.4	99.2 99.5	99.2 99.5	99.5 99.8	99.5 99.8	99.6 99.9	99.6 99.9
IVIV 300 200	66.6 66.6	88.5 88.5	91.7 91.7	93.7 93.8	96.1 96.1	96.4 96.4	97.7 97.8	98.5 98.6	98.6 98.7	99.4 99.5	99.5 99.6	99.5 99.6	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0
IVIV 100 0	66.6 66.6	88.5 88.5	91.7 91.7	93.8 93.8	96.1 96.1	96.4 96.4	97.8 97.8	98.6 98.6	98.7 98.7	99.5 99.5	99.6 99.6	99.6 99.6	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 2043

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	36.7	39.7	40.0	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
IV 20000	46.5	51.1	51.5	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 18000	47.1	51.9	52.3	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 16000	47.6	52.7	53.1	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 14000	48.2	53.3	53.7	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 12000	49.4	55.1	55.5	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 10000	51.1	57.1	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
IV 9000	51.3	57.8	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
IV 8000	52.9	59.9	60.4	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
IV 7000	54.1	61.6	62.2	62.4	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 6000	55.3	63.3	63.9	64.3	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IV 5000	57.1	65.6	66.3	66.8	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
IV 4500	58.7	68.2	69.0	69.4	69.8	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
IV 4000	61.1	71.9	72.8	73.4	74.1	74.1	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 3500	62.6	74.3	75.2	75.9	76.6	76.7	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
IV 3000	64.2	77.6	78.6	79.5	80.2	80.3	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
IV 2500	65.5	81.1	82.4	83.5	84.2	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 2000	66.4	84.7	85.6	86.8	88.0	88.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 1800	66.7	85.0	86.6	88.1	89.3	89.6	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 1500	67.1	85.9	87.6	89.1	90.6	90.8	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.4
IV 1200	67.2	86.8	88.7	90.5	92.2	92.6	93.1	93.6	93.6	93.6	93.6	93.6	93.7	93.7	93.7	93.7
IV 1000	67.4	87.4	89.4	91.3	93.1	93.4	94.3	94.8	94.8	94.8	94.9	94.9	95.0	95.0	95.0	95.0
IV 900	67.4	87.5	89.5	91.5	93.4	93.8	94.9	95.4	95.4	95.5	95.5	95.5	95.6	95.6	95.6	95.6
IV 800	67.4	87.6	89.7	91.9	93.9	94.3	95.4	96.0	96.0	96.3	96.3	96.3	96.4	96.4	96.4	96.4
IV 700	67.4	87.8	89.9	92.3	94.3	94.7	96.0	96.6	96.6	96.9	97.0	97.0	97.1	97.1	97.1	97.1
IV 600	67.4	88.1	90.3	92.6	94.7	95.3	96.6	97.5	97.5	97.9	98.0	98.0	98.2	98.2	98.2	98.2
IV 500	67.4	88.2	90.3	92.7	95.0	95.5	97.2	98.2	98.2	98.9	99.1	99.1	99.3	99.3	99.3	99.3
IV 400	67.4	88.2	90.3	92.7	95.0	95.6	97.3	98.3	98.3	99.2	99.5	99.5	99.7	99.7	99.7	99.8
IV 300	67.4	88.2	90.3	92.7	95.1	95.6	97.5	98.4	98.5	99.4	99.7	99.7	99.9	99.9	100.0	100.0
IV 200	67.4	88.2	90.3	92.7	95.1	95.6	97.5	98.4	98.5	99.4	99.7	99.7	99.9	99.9	100.0	100.0
IV 100	67.4	88.2	90.3	92.7	95.1	95.6	97.5	98.4	98.5	99.4	99.7	99.7	99.9	99.9	100.0	100.0
IV 0	67.4	88.2	90.3	92.7	95.1	95.6	97.5	98.4	98.5	99.4	99.7	99.7	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2043

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

43-45, 47, 49-66

YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	48.3	46.6	46.6	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
IV 20000	43.5	52.2	53.3	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 18000	43.7	52.7	53.8	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 16000	44.3	53.3	54.4	54.9	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IV 14000	44.9	54.5	55.6	56.2	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
IV 12000	46.4	56.8	58.0	58.6	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
IV 10000	47.3	59.0	60.2	60.8	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
IV 9000	47.9	60.1	61.3	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
IV 8000	48.7	61.9	63.2	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 7000	50.6	64.7	66.0	66.8	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
IV 6000	52.1	66.9	68.6	69.4	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 5000	53.5	70.1	71.9	72.9	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 4500	54.4	71.9	73.9	75.0	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IV 4000	55.4	74.1	76.2	77.3	77.9	77.9	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 3500	56.2	76.2	78.7	79.8	80.5	80.5	80.7	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 3000	57.0	78.3	80.8	82.0	82.8	82.8	83.0	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 2500	57.5	80.1	83.1	84.4	85.4	85.5	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IV 2000	58.1	82.5	85.9	87.3	88.6	88.8	89.1	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 1800	58.1	82.9	86.4	87.8	89.3	89.5	89.8	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 1500	58.3	83.6	87.5	89.1	91.0	91.2	91.6	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 1200	58.3	84.5	88.6	90.6	92.6	92.9	93.2	93.5	93.5	93.6	93.6	93.6	93.7	93.7	93.7	93.7
IV 1000	58.4	85.4	89.6	91.7	93.9	94.2	94.8	95.2	95.2	95.4	95.4	95.4	95.5	95.5	95.5	95.5
IV 900	58.4	85.5	89.7	91.8	94.2	94.6	95.3	95.7	95.7	95.9	95.9	95.9	96.0	96.0	96.0	96.0
IV 800	58.4	85.6	89.8	92.0	94.4	94.8	95.6	96.0	96.0	96.4	96.4	96.4	96.5	96.5	96.5	96.5
IV 700	58.4	85.7	90.0	92.2	94.6	95.1	96.0	96.4	96.4	96.9	96.9	96.9	97.0	97.0	97.0	97.0
IV 600	58.4	86.0	90.3	92.5	95.1	95.5	96.6	97.2	97.2	97.6	97.7	97.7	97.7	97.7	97.7	97.7
IV 500	58.4	86.0	90.3	92.6	95.4	95.8	97.1	97.7	97.7	98.2	98.4	98.4	98.5	98.5	98.5	98.5
IV 400	58.4	86.0	90.3	92.6	95.4	95.8	97.2	97.8	97.8	98.6	99.0	99.0	99.1	99.1	99.1	99.1
IV 300	58.4	86.0	90.3	92.6	95.5	95.9	97.6	98.3	98.3	99.2	99.6	99.6	99.8	99.8	99.8	99.8
IV 200	58.4	86.0	90.3	92.6	95.5	95.9	97.6	98.4	98.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0
IV 100	58.4	86.0	90.3	92.6	95.5	95.9	97.6	98.4	98.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0
IV 0	58.4	86.0	90.3	92.6	95.5	95.9	97.6	98.4	98.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2344

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

43-45,47,49-66

YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	45.9 49.1	49.7 54.7	51.1 56.8	52.1 57.9	52.3 58.2	52.3 58.2	52.3 58.3	52.4 58.3	52.4 58.3	52.4 58.4	52.4 58.4	52.4 58.4	52.4 58.4	52.4 58.4	52.4 58.4	52.4 58.4
IV 19000 16000	49.4 49.5	55.1 55.3	57.2 57.4	58.3 58.5	58.6 58.8	58.6 58.8	58.6 58.8	58.7 58.9	58.7 58.9	58.7 58.9	58.7 58.9	58.7 58.9	58.7 58.9	58.7 58.9	58.7 58.9	58.7 58.9
IV 14000 12000	40.0 40.7	56.3 57.7	58.5 59.9	59.6 61.1	59.9 61.3	59.9 61.3	59.9 61.3	60.0 61.4	60.0 61.4	60.0 61.4	60.0 61.4	60.0 61.4	60.0 61.4	60.0 61.4	60.0 61.4	60.0 61.4
IV 10000 9000	41.5 41.8	59.3 60.7	61.5 62.3	62.7 63.5	63.1 63.9	63.1 63.9	63.1 63.9	63.2 64.0	63.2 64.0	63.2 64.1	63.2 64.1	63.2 64.1	63.2 64.1	63.2 64.1	63.2 64.1	63.2 64.1
IV 8000 7000	43.0 44.5	62.4 65.4	65.0 68.1	66.2 69.4	66.6 69.8	66.6 69.8	66.6 69.8	66.7 69.9	66.7 69.9	66.7 70.0	66.7 70.0	66.7 70.0	66.7 70.0	66.7 70.0	66.7 70.0	66.7 70.0
IV 6000 5000	45.7 46.8	67.8 70.3	70.7 73.3	72.2 75.0	72.7 75.6	72.7 75.6	72.7 75.6	72.8 75.7	72.8 75.7	72.9 75.8	72.9 75.8	72.9 75.8	72.9 75.8	72.9 75.8	72.9 75.8	72.9 75.8
IV 4500 4000	47.6 48.0	72.2 74.0	75.4 77.3	77.3 79.2	77.8 79.8	77.8 79.9	77.9 80.1	78.0 80.2	78.0 80.2	78.1 80.3	78.1 80.3	78.1 80.3	78.1 80.3	78.1 80.3	78.1 80.3	78.1 80.3
IV 3500 3000	48.3 48.7	75.2 76.9	78.7 80.7	80.7 82.7	81.5 83.6	81.6 83.7	82.0 84.1	82.1 84.2	82.1 84.2	82.2 84.3	82.2 84.3	82.2 84.3	82.2 84.3	82.2 84.3	82.2 84.3	82.2 84.3
IV 2500 2000	49.5 49.9	78.7 80.6	82.6 84.8	84.7 86.9	85.6 88.1	85.9 88.4	86.3 88.9	86.4 89.1	86.4 89.1	86.5 89.2	86.5 89.2	86.5 89.2	86.5 89.2	86.5 89.2	86.5 89.2	86.5 89.2
IV 1800 1500	50.0 50.2	81.0 82.2	85.4 87.1	87.6 89.5	88.8 90.9	89.0 91.1	89.5 91.7	89.8 92.0	89.8 92.0	89.9 92.2	89.9 92.2	89.9 92.2	89.9 92.2	89.9 92.2	89.9 92.2	89.9 92.2
IV 1200 1000	50.4 50.4	83.2 84.0	88.3 89.3	91.1 92.1	92.6 93.8	93.0 94.2	93.6 95.0	94.0 95.4	94.0 95.4	94.2 95.6	94.2 95.6	94.2 95.6	94.2 95.6	94.2 95.6	94.2 95.6	94.2 95.6
IV 900 800	50.4 50.4	84.1 84.3	89.4 89.7	92.3 92.6	94.3 94.3	94.6 94.9	95.6 95.9	96.0 96.4	96.0 96.4	96.3 96.7	96.3 96.7	96.3 96.7	96.3 96.7	96.3 96.7	96.4 96.8	96.4 96.8
IV 700 600	50.4 50.4	84.4 84.4	89.8 90.1	92.9 93.2	94.7 95.1	95.3 95.6	96.5 96.9	97.0 97.6	97.1 97.7	97.3 97.9	97.3 97.9	97.3 97.9	97.3 97.9	97.3 97.9	97.4 98.0	97.4 98.0
IV 500 400	50.4 50.4	84.5 84.6	90.3 90.4	93.4 93.5	95.4 95.6	96.1 96.3	97.5 97.7	98.1 98.4	98.2 98.5	98.4 98.8	98.5 98.9	98.5 98.9	98.6 99.0	98.6 99.0	98.7 99.1	98.7 99.1
IV 300 200	50.4 50.4	84.6 84.6	90.4 90.4	93.5 93.5	95.7 95.7	96.5 96.5	97.8 98.0	98.7 99.0	98.8 99.0	99.1 99.2	99.3 99.5	99.3 99.7	99.4 99.7	99.4 99.8	99.5 99.8	99.5 100.0
IV 100 0	50.4 50.4	84.6 84.6	90.4 90.4	93.5 93.5	95.7 95.7	96.5 96.5	98.0 98.0	99.0 99.0	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 245

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-2200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	49.3	51.9	53.0	53.4	53.7	53.7	53.7	53.7	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.0
≥ 20000	43.3	57.4	58.8	59.3	59.6	59.6	59.6	59.6	59.6	59.8	59.8	59.8	59.9	59.9	59.9	59.9
IVV 18000	43.6	57.9	59.3	59.8	60.1	60.1	60.2	60.2	60.2	60.3	60.4	60.4	60.4	60.4	60.5	60.5
16000	43.8	58.2	59.6	60.1	60.4	60.4	60.5	60.5	60.5	60.6	60.7	60.7	60.7	60.7	60.8	60.8
IVV 14000	44.8	59.4	60.8	61.3	61.6	61.6	61.6	61.6	61.6	61.8	61.8	61.8	61.9	61.9	61.9	61.9
12000	46.2	61.7	63.1	63.6	63.9	63.9	64.0	64.0	64.0	64.1	64.2	64.2	64.2	64.2	64.3	64.3
IVV 10000	47.8	64.2	65.7	66.2	66.5	66.5	66.5	66.5	66.5	66.7	66.7	66.7	66.8	66.8	66.8	66.8
9000	48.8	65.7	67.1	67.6	67.9	67.9	68.0	68.0	68.0	68.1	68.2	68.2	68.2	68.2	68.3	68.3
IVV 8000	50.4	68.8	70.4	71.0	71.3	71.3	71.4	71.4	71.4	71.5	71.6	71.6	71.6	71.6	71.7	71.7
7000	51.7	72.2	73.9	74.5	74.9	74.9	75.0	75.0	75.0	75.2	75.2	75.2	75.3	75.3	75.3	75.3
IVV 6000	52.6	74.1	76.0	76.6	77.0	77.0	77.1	77.1	77.1	77.3	77.3	77.3	77.4	77.4	77.4	77.4
5000	54.4	77.7	79.9	80.7	81.2	81.2	81.3	81.3	81.3	81.4	81.5	81.5	81.5	81.5	81.6	81.6
IVV 4500	54.8	79.0	81.3	82.3	82.9	82.9	83.0	83.0	83.0	83.1	83.2	83.2	83.2	83.2	83.3	83.3
4000	55.8	81.2	83.5	84.6	85.2	85.2	85.3	85.3	85.3	85.5	85.5	85.5	85.6	85.6	85.6	85.7
IVV 3500	56.2	82.8	85.3	86.5	87.1	87.1	87.2	87.2	87.2	87.4	87.4	87.4	87.5	87.5	87.5	87.6
3000	56.7	84.1	86.6	88.0	88.7	88.7	88.8	88.8	88.8	89.0	89.0	89.0	89.1	89.1	89.2	89.3
IVV 2500	57.1	84.8	87.7	89.3	90.2	90.2	90.3	90.3	90.3	90.5	90.5	90.5	90.6	90.6	90.7	90.8
2000	57.4	86.8	89.7	91.5	92.7	92.7	92.9	92.9	92.9	93.1	93.1	93.1	93.2	93.2	93.3	93.4
IVV 1800	57.4	87.1	90.1	91.9	93.1	93.1	93.3	93.3	93.3	93.5	93.5	93.5	93.6	93.6	93.7	93.8
1500	57.6	88.0	91.2	93.1	94.3	94.5	94.7	94.7	94.7	94.9	95.0	95.0	95.2	95.2	95.2	95.3
IVV 1200	57.7	88.5	91.7	93.8	95.1	95.5	95.8	95.8	95.8	96.0	96.1	96.1	96.2	96.2	96.3	96.4
1000	57.8	88.6	91.9	94.1	95.5	96.0	96.3	96.3	96.3	96.5	96.6	96.6	96.7	96.7	96.8	96.9
IVV 900	57.8	88.6	92.1	94.2	95.9	96.3	96.7	96.7	96.7	96.9	97.0	97.0	97.1	97.1	97.2	97.3
800	57.8	88.8	92.2	94.5	96.2	96.6	97.0	97.0	97.0	97.2	97.3	97.3	97.4	97.4	97.5	97.6
IVV 700	57.8	88.9	92.5	94.8	96.5	96.9	97.3	97.3	97.3	97.5	97.6	97.6	97.7	97.7	97.8	97.9
600	57.8	89.1	92.8	95.2	97.0	97.4	97.8	97.8	97.8	98.2	98.3	98.3	98.4	98.4	98.5	98.6
IVV 500	57.8	89.1	92.8	95.2	97.0	97.4	97.8	97.8	97.8	98.2	98.3	98.3	98.4	98.4	98.5	98.6
400	57.8	89.1	92.8	95.2	97.0	97.4	97.8	97.8	97.8	98.2	98.3	98.3	98.4	98.4	98.5	98.6
IVV 300	57.8	89.1	93.0	95.5	97.5	97.9	98.5	98.5	98.5	98.9	99.0	99.0	99.1	99.1	99.2	99.3
200	57.8	89.1	93.0	95.5	97.5	97.9	98.6	98.6	98.6	99.1	99.3	99.3	99.4	99.4	99.5	99.6
IVV 100	57.8	89.1	93.0	95.5	97.5	98.0	98.6	98.6	98.6	99.3	99.5	99.5	99.7	99.7	99.8	99.9
0	57.8	89.1	93.0	95.5	97.5	98.0	98.6	98.6	98.6	99.3	99.5	99.5	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1980

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	37.9	46.7	47.5	48.2	48.8	48.9	49.3	49.5	49.6	49.9	49.9	49.9	50.0	50.0	50.1	50.1
IVIV 18000	35.1	52.1	53.7	54.6	55.5	55.5	56.0	56.2	56.3	56.6	56.6	56.6	56.7	56.7	56.7	56.8
IVIV 16000	35.4	52.5	54.2	55.1	56.0	56.0	56.5	56.7	56.8	57.1	57.1	57.1	57.1	57.1	57.2	57.2
IVIV 14000	36.2	53.5	55.3	56.2	57.1	57.1	57.6	57.8	57.9	58.2	58.2	58.2	58.2	58.2	58.3	58.3
IVIV 12000	37.9	55.8	57.6	58.6	59.4	59.5	59.9	60.2	60.3	60.6	60.6	60.6	60.6	60.6	60.7	60.7
IVIV 10000	39.4	58.6	60.6	61.7	62.5	62.6	63.0	63.2	63.3	63.6	63.6	63.6	63.7	63.7	63.7	63.8
IVIV 9000	40.1	60.1	62.1	63.2	64.0	64.1	64.5	64.7	64.8	65.2	65.2	65.2	65.2	65.2	65.3	65.3
IVIV 8000	41.7	63.1	65.2	66.3	67.2	67.3	67.7	67.9	68.0	68.3	68.3	68.3	68.3	68.3	68.4	68.4
IVIV 7000	43.3	66.2	68.3	69.5	70.6	70.7	71.1	71.3	71.4	71.7	71.7	71.7	71.7	71.7	71.8	71.9
IVIV 6000	44.7	68.9	71.1	72.4	73.5	73.6	74.0	74.3	74.4	74.7	74.7	74.7	74.7	74.7	74.8	74.9
IVIV 5000	46.4	72.0	74.5	76.0	77.1	77.2	77.6	77.9	78.0	78.3	78.3	78.3	78.3	78.3	78.4	78.5
IVIV 4500	47.1	73.0	75.7	77.1	78.3	78.4	78.9	79.1	79.2	79.5	79.5	79.5	79.6	79.6	79.7	79.8
IVIV 4000	48.4	75.1	77.9	79.4	80.6	80.7	81.2	81.5	81.6	81.9	81.9	81.9	81.9	81.9	82.1	82.2
IVIV 3500	49.2	76.5	79.3	81.0	82.2	82.3	82.8	83.1	83.2	83.6	83.6	83.6	83.6	83.6	83.8	83.9
IVIV 3000	49.8	78.3	81.4	83.2	84.6	84.7	85.3	85.6	85.7	86.1	86.1	86.1	86.2	86.2	86.3	86.5
IVIV 2500	50.4	79.5	82.7	84.5	86.0	86.2	86.7	87.0	87.1	87.5	87.5	87.5	87.6	87.6	87.7	87.9
IVIV 2000	51.0	81.1	84.5	86.6	88.2	88.3	88.9	89.2	89.3	89.7	89.7	89.7	89.8	89.8	90.1	90.2
IVIV 1800	51.1	81.6	85.0	87.2	88.8	88.9	89.5	89.8	89.9	90.4	90.4	90.4	90.4	90.4	90.7	90.8
IVIV 1500	51.5	83.0	86.7	89.0	90.7	90.9	91.5	91.9	92.0	92.4	92.4	92.4	92.4	92.4	92.7	92.8
IVIV 1200	51.9	84.3	88.3	90.9	92.6	92.9	93.7	94.0	94.1	94.7	94.7	94.7	94.8	94.8	95.1	95.2
IVIV 1000	52.1	84.5	88.7	91.5	93.4	93.7	94.5	94.9	95.0	95.6	95.6	95.6	95.7	95.7	95.9	96.1
IVIV 900	52.1	84.7	89.0	91.8	93.9	94.3	95.2	95.6	95.7	96.2	96.2	96.2	96.3	96.3	96.6	96.7
IVIV 800	52.1	84.9	89.2	92.1	94.2	94.6	95.7	96.0	96.1	96.7	96.7	96.7	96.8	96.8	97.0	97.2
IVIV 700	52.1	84.9	89.3	92.2	94.4	94.8	95.9	96.2	96.3	96.9	96.9	96.9	97.0	97.0	97.2	97.4
IVIV 600	52.1	85.2	89.5	92.5	94.8	95.3	96.4	96.8	96.9	97.4	97.4	97.4	97.5	97.5	97.8	97.9
IVIV 500	52.1	85.2	89.5	92.8	95.2	95.7	97.0	97.4	97.5	98.1	98.1	98.1	98.2	98.2	98.5	98.6
IVIV 400	52.1	85.2	89.6	92.9	95.6	96.1	97.5	97.8	97.9	98.5	98.6	98.6	98.7	98.7	99.0	99.1
IVIV 300	52.1	85.2	89.6	92.9	95.6	96.2	97.6	98.0	98.1	98.7	98.8	98.8	98.9	98.9	99.2	99.3
IVIV 200	52.1	85.2	89.6	92.9	95.6	96.2	97.8	98.1	98.2	98.9	99.0	99.0	99.2	99.2	99.4	99.6
IVIV 100	52.1	85.2	89.6	92.9	95.6	96.2	97.8	98.1	98.2	98.9	99.0	99.0	99.2	99.2	99.5	99.8
IVIV 0	52.1	85.2	89.6	92.9	95.6	96.2	97.8	98.1	98.2	98.9	99.0	99.0	99.2	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 1980

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827

STATION

SPYRNA TENNESSEE/SEWART AFB

STATION NAME

43-45, 47, 49-66

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING IV 20000	31.8 37.4	41.2 48.9	42.2 50.3	42.9 51.2	43.2 51.7	43.3 51.7	43.5 51.9	43.6 52.2	43.6 52.0	43.7 52.1	43.7 52.1	43.7 52.1	43.7 52.2	43.7 52.2	43.7 52.2	43.7 52.2
IV 18000 16000	37.6 38.1	49.2 49.7	51.6 51.1	51.6 52.7	52.0 52.5	52.1 52.5	52.3 52.7	52.4 52.8	52.4 52.8	52.5 52.9	52.5 52.9	52.5 52.9	52.5 53.0	52.5 53.0	52.5 53.0	52.5 53.0
IV 14000 12000	39.3 41.3	51.4 53.7	52.8 55.1	53.7 56.2	54.3 56.7	54.3 56.8	54.6 57.0	54.7 57.1	54.7 57.1	54.8 57.2	54.8 57.2	54.8 57.2	54.8 57.3	54.8 57.3	54.8 57.3	54.8 57.3
IV 10000 9000	42.2 44.2	56.6 58.1	58.0 59.6	59.1 62.7	59.7 61.3	59.7 61.3	60.1 61.7	60.2 61.8	60.2 61.8	60.3 61.9	60.3 61.9	60.3 61.9	60.3 61.9	60.3 61.9	60.3 61.9	60.3 61.9
IV 8000 7000	46.1 48.1	60.8 64.2	62.4 66.1	63.5 67.3	64.3 68.2	64.4 68.3	64.7 68.6	64.8 68.7	64.8 68.7	64.9 68.9	64.9 68.9	64.9 68.9	65.0 68.9	65.0 68.9	65.0 68.9	65.0 68.9
IV 6000 5000	49.8 51.8	66.5 69.4	68.4 71.5	69.6 72.9	70.7 74.2	70.8 74.3	71.1 74.6	71.2 74.7	71.2 74.7	71.4 74.9	71.4 74.9	71.4 74.9	71.4 74.9	71.4 74.9	71.4 74.9	71.4 74.9
IV 4500 4000	52.2 53.5	70.3 72.3	72.4 74.5	73.9 76.1	75.4 77.7	75.5 77.8	75.8 78.2	75.9 78.3	75.9 78.3	76.1 78.5	76.1 78.5	76.1 78.5	76.2 78.6	76.2 78.6	76.2 78.6	76.2 78.6
IV 3500 3000	54.6 55.5	73.7 75.3	75.9 77.6	77.8 79.6	79.4 81.3	79.5 81.4	79.9 82.0	80.0 82.2	80.0 82.2	80.2 82.4	80.2 82.4	80.2 82.4	80.3 82.4	80.3 82.4	80.3 82.4	80.3 82.4
IV 2500 2000	56.6 58.1	77.3 81.3	79.7 82.9	81.8 85.1	83.6 87.0	83.7 87.1	84.3 87.8	84.5 88.0	84.5 88.0	84.7 88.3	84.7 88.3	84.7 88.3	84.8 88.3	84.8 88.3	84.8 88.3	84.8 88.4
IV 1800 1500	58.2 59.2	81.9 82.7	83.7 85.7	85.8 88.0	87.7 90.7	87.9 90.9	88.5 91.1	88.7 91.1	88.7 91.1	89.0 91.4	89.0 91.4	89.0 91.4	89.0 91.5	89.1 91.5	89.1 91.5	89.1 91.5
IV 1200 1000	59.5 59.5	83.8 84.2	86.9 87.4	89.4 90.1	91.5 92.3	91.7 92.5	92.6 93.5	92.8 93.7	92.8 93.7	93.1 94.0	93.1 94.0	93.1 94.0	93.2 94.1	93.2 94.1	93.2 94.1	93.3 94.2
IV 900 800	59.6 59.6	84.7 84.9	87.9 88.2	90.9 91.3	93.3 93.8	93.5 94.1	94.5 95.2	94.8 95.7	94.8 95.7	95.3 96.1	95.3 96.2	95.3 96.2	95.3 96.2	95.3 96.2	95.3 96.2	95.4 96.3
IV 700 600	59.7 59.7	85.3 85.5	88.6 88.8	91.8 92.1	94.4 94.9	94.7 95.2	95.8 96.4	96.2 97.0	96.2 97.0	96.7 97.5	96.8 97.7	96.8 97.7	96.8 97.8	96.8 97.8	96.8 97.8	96.9 97.9
IV 500 400	59.7 59.7	85.6 85.7	89.1 89.2	92.6 92.7	95.4 95.8	95.8 96.1	97.2 97.6	97.8 98.3	97.9 98.3	98.4 99.1	98.6 99.3	98.6 99.3	98.7 99.3	98.7 99.3	98.7 99.3	98.8 99.4
IV 300 200	59.7 59.7	85.7 85.7	89.2 89.2	92.8 92.8	95.8 95.8	96.2 96.2	97.7 97.7	98.4 98.4	98.5 98.5	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.7 99.7	99.8 99.8
IV 100 0	59.7 59.7	85.7 85.7	89.2 89.2	92.8 92.8	95.8 95.8	96.2 96.2	97.7 97.7	98.4 98.4	98.5 98.5	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.7 99.7	99.9 100.0

TOTAL NUMBER OF OBSERVATIONS 1980



1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHFVILLI, N. C. 28901

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	47.3 47.1	43.1 52.2	43.1 52.4	43.5 52.7	43.7 53.1	43.7 53.1	43.7 53.0	43.7 53.1	43.7 53.0	43.7 53.1	43.7 53.0	43.7 53.1	43.7 53.0	43.7 53.0	43.7 53.0	43.7 53.0
IVV 18000 16000	47.2 47.7	52.4 52.9	52.6 53.1	52.9 53.5	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7	53.2 53.7
IVV 14000 12000	48.5 49.9	54.1 55.8	54.2 56.0	54.5 56.4	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6	54.8 56.6
IVV 10000 9000	51.8 52.9	58.2 59.4	58.4 59.6	58.7 59.9	59.1 60.2	59.0 60.2	59.0 60.2	59.0 60.2	59.0 60.2	59.0 60.2	59.0 60.2	59.0 60.2	59.0 60.2	59.0 60.2	59.0 60.2	59.0 60.2
IVV 8000 7000	61.1 55.5	61.1 63.6	61.2 63.9	61.5 64.2	61.8 64.5	61.8 64.6	61.8 64.6	61.8 64.6	61.8 64.6	61.8 64.6	61.8 64.6	61.8 64.6	61.8 64.6	61.8 64.6	61.8 64.6	61.8 64.6
IVV 6000 5000	66.4 57.8	64.9 67.2	65.2 67.5	65.6 67.9	65.9 68.2	65.9 68.2	66.0 68.3	66.0 68.4	66.0 68.4	66.0 68.4	66.0 68.4	66.0 68.4	66.0 68.4	66.0 68.4	66.0 68.4	66.0 68.4
IVV 4500 4000	68.5 61.1	68.2 71.1	68.6 71.4	69.0 71.8	69.3 72.2	69.4 72.3	69.5 72.4	69.5 72.5	69.5 72.5	69.5 72.5	69.5 72.5	69.5 72.5	69.5 72.5	69.5 72.5	69.5 72.5	69.5 72.5
IVV 3500 3000	73.1 66.2	73.5 77.8	73.9 78.3	74.4 79.0	74.8 79.4	74.9 79.5	75.1 79.7	75.2 79.7	75.2 79.7	75.2 79.7	75.2 79.7	75.2 79.7	75.2 79.7	75.2 79.7	75.2 79.7	75.2 79.7
IVV 2500 2000	81.9 72.1	81.9 86.1	82.5 86.7	83.2 87.4	83.6 87.9	83.8 88.1	84.1 88.5	84.2 88.6	84.2 88.6	84.2 88.6	84.2 88.6	84.2 88.6	84.2 88.6	84.2 88.6	84.2 88.6	84.2 88.6
IVV 1800 1500	87.4 74.1	87.4 89.7	87.9 90.4	88.7 91.2	89.2 91.9	89.4 92.1	89.8 92.6	89.9 92.7	89.9 92.7	89.9 92.7	89.9 92.7	89.9 92.7	89.9 92.7	89.9 92.7	89.9 92.7	89.9 92.7
IVV 1200 1000	90.8 74.4	90.8 91.8	91.5 92.5	92.5 93.7	93.3 94.7	93.5 94.9	94.2 95.7	94.3 95.8	94.3 95.8	94.4 95.9	94.4 95.9	94.4 95.9	94.4 95.9	94.4 95.9	94.4 95.9	94.4 95.9
IVV 900 800	92.1 74.5	92.1 92.4	92.9 93.2	94.2 94.7	95.3 95.9	95.5 96.1	96.2 96.9	96.3 97.2	96.3 97.0	96.4 97.2	96.4 97.2	96.4 97.2	96.4 97.2	96.4 97.2	96.4 97.2	96.4 97.2
IVV 700 600	92.9 74.8	92.9 93.2	93.7 94.1	95.4 96.0	96.6 97.4	96.8 97.6	97.7 98.5	97.9 98.7	97.9 98.7	98.0 99.0	98.0 99.0	98.0 99.0	98.0 99.0	98.0 99.0	98.0 99.0	98.0 99.0
IVV 500 400	93.3 74.8	93.3 93.4	94.2 94.4	96.2 96.4	97.6 98.0	97.8 98.2	98.7 99.1	99.0 99.5	99.0 99.5	99.3 99.8	99.3 99.9	99.3 99.9	99.3 99.9	99.3 99.9	99.3 99.9	99.3 99.9
IVV 300 200	93.4 74.8	93.4 93.4	94.4 94.4	96.4 96.4	98.0 98.0	98.2 98.2	99.2 99.2	99.6 99.6	99.6 99.6	99.9 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IVV 100 0	93.4 74.8	93.4 93.4	94.4 94.4	96.4 96.4	98.0 98.0	98.2 98.2	99.2 99.2	99.6 99.6	99.6 99.6	99.9 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHVILLE, N. C. 28831

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	37.9 48.6	39.9 51.2	41.1 51.3	40.2 51.4	41.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5	40.2 51.5
IV 18000 16000	49.7 49.7	51.6 52.3	51.8 52.4	51.9 52.5	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6	51.9 52.6
IV 14000 12000	52.8 52.5	53.6 55.5	53.7 55.6	53.8 55.7	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8	53.9 55.8
IV 10000 9000	54.7 55.7	57.9 58.9	58.0 59.0	58.1 59.1	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2	58.2 59.2
IV 8000 7000	57.5 58.2	61.4 62.1	61.6 62.3	61.7 62.4	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5	61.8 62.5
IV 6000 5000	59.5 62.7	63.8 66.9	64.0 67.2	64.2 67.4	64.3 67.4	64.3 67.4	64.3 67.5	64.3 67.5	64.3 67.5	64.3 67.5	64.3 67.5	64.3 67.5	64.3 67.5	64.3 67.5	64.3 67.5	64.3 67.5
IV 4500 4000	63.7 67.1	69.1 73.8	69.3 74.1	69.5 74.4	69.6 74.4	69.6 74.5	69.6 74.5	69.6 74.5	69.6 74.5	69.6 74.5	69.6 74.5	69.6 74.5	69.6 74.5	69.6 74.5	69.6 74.5	69.6 74.5
IV 3500 3000	70.7 75.5	78.1 83.8	78.5 84.3	78.7 84.6	78.8 84.8	78.8 84.9	78.8 84.9	78.8 84.9	78.8 84.9	78.8 84.9	78.8 84.9	78.8 84.9	78.8 84.9	78.8 84.9	78.8 84.9	78.8 84.9
IV 2500 2000	77.3 78.8	87.3 89.8	87.8 90.5	88.2 90.9	88.4 91.2	88.4 91.2	88.6 91.4	88.6 91.4	88.6 91.4	88.6 91.5	88.6 91.5	88.6 91.5	88.6 91.5	88.6 91.5	88.6 91.5	88.6 91.5
IV 1800 1500	79.2 79.9	90.6 92.2	91.3 93.0	91.8 93.5	92.1 94.3	92.1 94.3	92.3 94.4	92.3 94.4	92.4 94.4	92.4 94.4	92.4 94.4	92.4 94.4	92.4 94.4	92.4 94.4	92.4 94.4	92.4 94.4
IV 1200 1000	91.3 90.5	93.3 93.8	94.4 94.9	95.0 95.7	95.5 96.3	95.6 96.4	95.9 96.7	95.9 96.8	95.9 96.8	96.1 96.9	96.1 96.9	96.1 96.9	96.1 96.9	96.1 96.9	96.1 96.9	96.1 96.9
IV 900 800	93.6 93.6	93.9 94.7	95.0 95.2	96.0 96.2	96.7 97.1	96.8 97.2	97.1 97.5	97.2 97.6	97.2 97.6	97.3 97.7	97.3 97.7	97.3 97.7	97.3 97.7	97.3 97.7	97.3 97.7	97.3 97.7
IV 700 600	93.6 90.6	94.1 94.2	95.3 95.4	96.5 96.8	97.5 98.1	97.7 98.2	98.0 98.6	98.2 98.7	98.2 98.7	98.3 98.9	98.3 98.9	98.3 98.9	98.3 98.9	98.3 98.9	98.3 98.9	98.3 98.9
IV 500 400	93.6 90.6	94.2 94.2	95.5 95.5	96.9 97.0	98.3 98.4	98.5 98.7	98.9 99.1	99.1 99.3	99.1 99.3	99.4 99.7	99.4 99.7	99.4 99.7	99.4 99.7	99.4 99.7	99.4 99.7	99.4 99.7
IV 300 200	93.6 90.6	94.2 94.2	95.5 95.5	97.0 97.0	98.4 98.4	98.8 98.8	99.3 99.3	99.5 99.5	99.5 99.5	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
IV 100 0	93.6 90.6	94.2 94.2	95.5 95.5	97.0 97.0	98.4 98.4	98.8 98.8	99.3 99.3	99.5 99.5	99.5 99.5	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	42.4	43.5	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
IVIV 18000 16000	54.8	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
IVIV 14000 12000	57.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IVIV 10000 9000	61.3	63.7	63.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IVIV 8000 7000	66.2	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IVIV 6000 5000	67.1	69.3	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IVIV 4500 4000	70.4	70.8	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IVIV 3500 3000	72.1	75.2	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IVIV 2500 2000	72.1	77.5	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IVIV 1800 1500	75.2	81.1	81.6	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IVIV 1200 1000	77.5	84.5	85.2	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
IVIV 900 800	79.2	87.1	87.7	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IVIV 700 600	80.9	89.4	90.4	90.7	90.8	90.8	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IVIV 500 400	81.7	91.5	92.7	93.4	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8
IVIV 300 200	81.8	91.9	93.1	93.8	94.0	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IVIV 100 0	82.2	92.2	92.9	94.4	95.4	95.6	95.6	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0
	82.1	93.6	95.3	96.6	96.9	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3
	82.2	93.8	95.6	96.9	97.2	97.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6
	82.2	93.9	95.7	97.0	97.4	97.5	97.7	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9
	82.2	94.0	95.8	97.1	97.6	97.7	97.9	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3
	82.2	94.1	95.8	97.2	97.7	97.8	98.1	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5
	82.2	94.2	95.9	97.4	97.9	98.1	98.5	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
	82.2	94.2	96.1	97.7	98.3	98.5	99.0	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5
	82.2	94.2	96.2	97.7	98.4	98.6	99.2	99.5	99.5	99.5	99.6	99.6	99.7	99.7	99.7	99.7
	82.2	94.2	96.2	97.7	98.5	98.8	99.3	99.6	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9
	82.2	94.2	96.2	97.7	98.5	98.8	99.3	99.6	99.7	99.7	99.8	99.8	99.9	99.9	99.9	100.0
	82.2	94.2	96.2	97.7	98.5	98.8	99.3	99.6	99.7	99.7	99.8	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28621

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING IV 20000	44.2 53.9	48.9 59.8	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9	49.0 59.9
IV 18000 16000	44.2 54.9	48.1 61.2	48.2 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3	48.3 61.3
IV 14000 12000	55.7 57.1	62.1 63.6	62.2 63.7	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8	62.3 63.8
IV 10000 9000	59.7 61.2	66.7 68.2	66.8 68.3	66.8 68.4	66.9 68.5	66.9 68.5	66.9 68.6	66.9 68.6	66.9 68.6	66.9 68.6	66.9 68.6	66.9 68.6	66.9 68.6	66.9 68.6	66.9 68.6	66.9 68.6
IV 8000 7000	63.1 65.7	71.7 74.4	70.9 74.6	71.1 75.1	71.3 75.4	71.3 75.4	71.4 75.4	71.4 75.5	71.4 75.5	71.4 75.5	71.4 75.5	71.4 75.5	71.4 75.5	71.4 75.5	71.4 75.5	71.4 75.5
IV 6000 5000	67.1 69.5	76.6 81.1	76.8 81.4	77.3 82.1	77.6 82.3	77.6 82.3	77.6 82.4	77.7 82.4	77.7 82.4	77.7 82.4	77.7 82.4	77.7 82.4	77.7 82.4	77.7 82.4	77.7 82.4	77.7 82.4
IV 4500 4000	71.1 72.6	83.1 85.1	83.6 85.7	84.2 86.5	84.5 86.9	84.5 86.9	84.6 87.1	84.6 87.2	84.6 87.2	84.6 87.2	84.6 87.2	84.6 87.2	84.6 87.2	84.6 87.2	84.6 87.2	84.6 87.2
IV 3500 3000	73.4 73.9	86.5 87.6	87.4 88.7	88.2 89.6	88.7 90.1	88.7 90.1	88.8 90.2	88.8 90.2	88.8 90.2	88.8 90.2	88.8 90.2	88.8 90.2	88.8 90.2	88.8 90.2	88.8 90.2	88.8 90.2
IV 2500 2000	74.4 74.8	88.9 90.4	90.3 92.2	91.4 93.4	91.9 94.1	91.9 94.1	92.0 94.2	92.0 94.2	92.0 94.2	92.0 94.2	92.0 94.2	92.0 94.2	92.0 94.2	92.0 94.2	92.0 94.2	92.0 94.2
IV 1800 1500	74.8 75.1	90.6 91.5	92.7 94.0	93.9 95.3	94.4 96.0	94.5 96.1	94.6 96.2	94.7 96.2	94.7 96.2	94.7 96.2	94.7 96.2	94.7 96.2	94.7 96.2	94.7 96.2	94.7 96.2	94.7 96.2
IV 1200 1000	75.1 75.1	92.3 92.4	94.8 95.0	96.2 96.4	97.1 97.5	97.2 97.7	97.3 97.8	97.4 97.9	97.4 97.9	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0
IV 900 800	75.1 75.2	92.5 92.7	95.1 95.3	96.6 96.9	97.7 98.0	97.8 98.2	98.0 98.4	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5
IV 700 600	75.2 75.2	92.8 92.8	95.5 95.6	97.1 97.3	98.3 98.6	98.5 98.8	98.9 99.1	99.0 99.3	99.0 99.3	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.5	99.0 99.5	99.0 99.5
IV 500 400	75.2 75.2	92.9 92.9	95.6 95.6	97.4 97.4	98.8 98.8	99.0 99.0	99.2 99.3	99.5 99.5	99.5 99.5	99.6 99.6	99.6 99.6	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7
IV 300 200	75.2 75.2	92.9 92.9	95.6 95.6	97.4 97.4	98.8 98.8	99.0 99.0	99.4 99.4	99.7 99.7	99.7 99.7	99.8 99.8	99.8 99.8	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
IV 100 0	75.2 75.2	92.9 92.9	95.6 95.6	97.4 97.4	98.8 98.8	99.0 99.0	99.4 99.4	99.8 99.8	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	45.6	54.6	54.9	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.5
IV 20000	50.8	61.8	62.1	62.3	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.7
IV 18000	51.1	62.1	62.4	62.6	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	63.0
IV 16000	51.5	62.7	63.1	63.2	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.5	63.5	63.6
IV 14000	52.2	63.7	64.0	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.6
IV 12000	53.5	65.5	65.8	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.4
IV 10000	56.1	68.5	68.9	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.5
IV 9000	57.3	69.8	70.3	70.4	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.9
IV 8000	58.6	72.0	72.6	72.8	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.2	73.3
IV 7000	60.3	75.6	76.5	76.7	76.9	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.3
IV 6000	60.8	77.1	78.2	78.6	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.1
IV 5000	62.7	80.7	82.2	82.8	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.4
IV 4500	64.0	82.5	84.0	84.9	85.2	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.6
IV 4000	64.0	84.2	86.1	87.1	87.4	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.8
IV 3500	65.3	85.4	87.5	88.6	89.0	89.0	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.4
IV 3000	65.7	86.4	88.7	89.8	90.4	90.5	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.9
IV 2500	66.0	87.4	89.8	91.0	91.7	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.2
IV 2000	66.4	88.7	91.8	93.1	93.8	93.8	94.0	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.3
IV 1800	66.4	89.1	92.3	93.6	94.4	94.5	94.7	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	95.1
IV 1500	66.5	89.9	93.3	94.8	95.7	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.3
IV 1200	66.9	90.5	93.8	95.4	96.3	96.5	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.2
IV 1000	66.9	90.6	94.0	95.7	96.8	97.1	97.3	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.7
IV 900	67.1	91.7	94.1	95.9	97.1	97.3	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.0
IV 800	67.0	90.7	94.2	96.0	97.3	97.5	97.8	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.3
IV 700	67.0	90.7	94.3	96.1	97.4	97.6	97.9	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.4
IV 600	67.0	90.8	94.4	96.3	97.7	97.9	98.3	98.5	98.5	98.7	98.7	98.7	98.8	98.8	98.8	98.9
IV 500	67.0	90.8	94.5	96.4	97.9	98.2	98.7	98.9	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.3
IV 400	67.0	90.9	94.7	96.6	98.1	98.4	99.0	99.2	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.7
IV 300	67.0	90.9	94.7	96.6	98.1	98.4	99.0	99.2	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.7
IV 200	67.0	90.9	94.7	96.6	98.1	98.4	99.1	99.3	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.8
IV 100	67.0	90.9	94.7	96.6	98.1	98.4	99.2	99.4	99.4	99.7	99.7	99.7	99.8	99.8	99.8	99.9
IV 0	67.0	90.9	94.7	96.6	98.1	98.4	99.2	99.4	99.4	99.7	99.7	99.7	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1980

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEHART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	43.3	64.1	65.7	66.2	66.5	66.8	67.0	67.1	67.1	67.2	67.4	67.4	67.5	67.5	67.6	67.9
≥ 20000	46.9	69.6	71.5	72.0	72.3	72.6	72.8	72.9	72.9	73.0	73.3	73.3	73.3	73.4	73.5	73.8
IV 18000	47.0	69.8	71.7	72.2	72.5	72.8	73.0	73.1	73.1	73.2	73.5	73.5	73.5	73.6	73.7	74.0
IV 16000	47.3	70.1	71.9	72.5	72.8	73.1	73.3	73.4	73.4	73.5	73.8	73.8	73.8	73.9	73.9	74.3
IV 14000	48.1	71.7	73.5	74.1	74.4	74.7	75.0	75.1	75.1	75.2	75.4	75.4	75.5	75.5	75.6	76.0
IV 12000	50.0	74.1	76.0	76.6	76.9	77.2	77.5	77.6	77.6	77.7	77.9	77.9	78.0	78.0	78.1	78.4
IV 10000	51.7	75.5	77.3	77.9	78.3	78.5	78.8	78.9	78.9	79.0	79.2	79.2	79.3	79.3	79.4	79.8
IV 9000	51.0	76.1	78.0	78.6	79.0	79.3	79.5	79.6	79.6	79.7	80.0	80.0	80.0	80.1	80.2	80.5
IV 8000	52.0	77.9	80.1	80.7	81.1	81.4	81.6	81.7	81.7	81.9	82.2	82.2	82.2	82.3	82.4	82.7
IV 7000	52.6	80.2	82.3	83.0	83.4	83.7	84.0	84.1	84.1	84.3	84.5	84.5	84.6	84.6	84.7	85.0
IV 6000	53.1	81.3	83.5	84.3	84.7	84.9	85.2	85.3	85.3	85.5	85.7	85.7	85.8	85.8	85.9	86.3
IV 5000	53.3	82.8	85.1	85.9	86.3	86.6	87.0	87.1	87.1	87.3	87.5	87.5	87.6	87.6	87.8	88.1
IV 4500	53.5	83.6	85.9	86.7	87.2	87.5	87.8	88.0	88.0	88.2	88.4	88.4	88.5	88.5	88.7	89.0
IV 4000	54.1	84.7	87.2	88.0	88.6	88.9	89.2	89.4	89.4	89.6	89.8	89.8	89.9	89.9	90.1	90.4
IV 3500	54.2	85.4	88.0	88.8	89.4	89.8	90.1	90.3	90.3	90.6	90.9	90.9	90.9	91.0	91.1	91.4
IV 3000	54.3	86.3	89.0	89.9	90.6	91.0	91.3	91.5	91.5	91.9	92.2	92.2	92.2	92.3	92.4	92.8
IV 2500	54.6	87.4	90.3	91.3	92.0	92.4	92.8	93.0	93.0	93.4	93.6	93.6	93.7	93.7	93.9	94.2
IV 2000	54.9	88.5	91.5	92.6	93.3	93.7	94.1	94.4	94.4	94.8	95.0	95.0	95.1	95.1	95.3	95.6
IV 1800	55.0	88.6	91.6	92.8	93.5	93.9	94.4	94.6	94.6	95.0	95.3	95.3	95.3	95.4	95.5	95.8
IV 1500	55.0	89.4	92.5	93.8	94.6	95.0	95.5	95.7	95.7	96.1	96.4	96.4	96.4	96.5	96.6	97.0
IV 1200	55.1	89.6	92.7	94.1	95.0	95.4	95.8	96.1	96.1	96.6	96.8	96.8	96.9	96.9	97.1	97.4
IV 1000	55.1	89.8	93.1	94.7	95.6	95.9	96.4	96.7	96.7	97.1	97.4	97.4	97.4	97.5	97.6	97.9
IV 900	55.1	89.8	93.2	94.7	95.6	96.0	96.4	96.7	96.7	97.2	97.4	97.4	97.5	97.5	97.7	98.0
IV 800	55.2	90.0	93.3	95.0	95.9	96.3	96.8	97.1	97.1	97.6	97.8	97.8	97.9	97.9	98.1	98.4
IV 700	55.2	90.0	93.3	95.1	96.0	96.4	96.9	97.3	97.3	97.8	98.0	98.0	98.0	98.1	98.2	98.6
IV 600	55.2	90.0	93.4	95.3	96.2	96.6	97.1	97.5	97.5	98.0	98.2	98.2	98.3	98.3	98.5	98.8
IV 500	55.2	90.1	93.5	95.4	96.2	96.6	97.2	97.6	97.6	98.1	98.3	98.3	98.4	98.4	98.6	98.9
IV 400	55.2	90.1	93.5	95.4	96.3	96.7	97.6	97.9	97.9	98.6	98.9	98.9	98.9	99.0	99.1	99.5
IV 300	55.2	90.2	93.5	95.5	96.5	96.9	97.8	98.2	98.2	98.9	99.1	99.1	99.2	99.2	99.4	99.7
IV 200	55.2	90.2	93.5	95.5	96.5	96.9	97.8	98.2	98.2	98.9	99.2	99.2	99.3	99.3	99.5	99.8
IV 100	55.2	90.2	93.5	95.5	96.5	96.9	97.8	98.2	98.2	98.9	99.2	99.2	99.3	99.3	99.5	99.8
IV 0	55.2	90.2	93.5	95.5	96.5	96.9	97.8	98.2	98.2	98.9	99.2	99.2	99.3	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	29.6	48.6	52.8	52.2	54.2	54.3	55.1	55.4	55.4	56.0	56.2	56.2	56.3	56.3	56.6	57.1
IV 20000	33.8	54.9	57.4	59.1	61.2	61.4	62.2	62.6	62.6	63.2	63.4	63.4	63.6	63.6	64.0	64.5
IV 18000	34.4	55.4	57.8	59.5	61.6	61.9	62.7	63.0	63.0	63.7	63.9	63.9	64.1	64.1	64.4	65.0
IV 16000	34.3	55.6	58.1	59.8	61.9	62.2	63.0	63.3	63.3	64.0	64.2	64.2	64.4	64.4	64.7	65.3
IV 14000	35.1	56.7	59.5	61.2	63.3	63.7	64.5	64.9	64.9	65.5	65.8	65.8	66.0	66.0	66.4	67.0
IV 12000	36.2	59.1	61.9	63.7	65.8	66.2	67.0	67.4	67.4	68.1	68.3	68.3	68.6	68.6	68.9	69.5
IV 10000	37.7	61.7	64.8	66.6	68.8	69.1	70.0	70.5	70.5	71.1	71.3	71.3	71.6	71.6	72.0	72.6
IV 9000	38.6	63.1	66.2	68.3	70.2	70.6	71.4	71.9	71.9	72.5	72.8	72.8	73.0	73.0	73.4	74.0
IV 8000	39.7	65.2	68.6	70.4	72.6	73.1	73.9	74.4	74.4	75.0	75.3	75.3	75.5	75.5	75.9	76.5
IV 7000	40.6	67.3	70.8	72.6	74.9	75.3	76.1	76.6	76.6	77.3	77.5	77.5	77.8	77.8	78.1	78.7
IV 6000	41.4	68.7	72.3	74.2	76.4	76.9	77.8	78.3	78.3	79.0	79.3	79.3	79.6	79.6	80.0	80.5
IV 5000	42.3	71.1	74.7	76.8	79.2	79.5	80.4	81.1	81.1	81.8	82.1	82.1	82.3	82.3	82.7	83.3
IV 4500	42.6	71.5	75.3	77.4	79.7	80.2	81.1	81.8	81.8	82.6	82.9	82.9	83.2	83.2	83.6	84.2
IV 4000	43.3	73.1	76.9	79.0	81.6	82.1	83.0	83.7	83.7	84.5	84.9	84.9	85.2	85.2	85.6	86.2
IV 3500	43.4	73.7	77.6	79.8	82.4	82.9	83.9	84.5	84.5	85.4	85.8	85.8	86.1	86.1	86.5	87.0
IV 3000	44.7	74.7	78.7	80.9	83.6	84.2	85.1	85.8	85.8	86.7	87.0	87.0	87.3	87.3	87.7	88.3
IV 2500	44.6	75.9	80.1	82.4	85.2	85.7	86.7	87.3	87.3	88.2	88.6	88.6	88.9	88.9	89.3	89.9
IV 2000	44.8	76.9	81.2	83.5	86.3	86.8	87.8	88.5	88.5	89.3	89.7	89.7	90.0	90.0	90.4	91.0
IV 1800	45.2	77.8	82.2	84.6	87.5	88.1	89.0	89.7	89.7	90.6	91.0	91.0	91.2	91.2	91.6	92.2
IV 1500	45.3	78.5	82.9	85.5	88.5	89.0	90.0	90.8	90.8	91.7	92.1	92.1	92.4	92.4	92.8	93.3
IV 1200	45.5	79.3	83.8	86.3	89.4	90.0	91.1	91.9	91.9	92.8	93.2	93.2	93.5	93.5	93.9	94.5
IV 1000	45.5	79.6	84.3	86.9	90.1	90.7	91.7	92.6	92.6	93.5	93.9	93.9	94.3	94.3	94.7	95.3
IV 900	45.5	79.8	84.5	87.2	90.6	91.1	92.3	93.2	93.2	94.1	94.5	94.5	94.9	94.9	95.3	95.8
IV 800	45.6	80.0	84.9	87.6	90.9	91.5	92.8	93.7	93.7	94.8	95.2	95.2	95.5	95.5	95.9	96.5
IV 700	45.6	80.1	85.0	87.7	91.1	91.7	93.1	94.0	94.0	95.1	95.5	95.5	95.8	95.8	96.2	96.8
IV 600	45.6	80.3	85.2	87.9	91.4	92.0	93.3	94.4	94.4	95.5	95.8	95.8	96.2	96.2	96.6	97.2
IV 500	45.6	80.4	85.4	88.2	91.7	92.3	93.8	94.9	94.9	96.0	96.4	96.4	96.7	96.7	97.1	97.7
IV 400	45.6	80.4	85.4	88.3	91.8	92.5	94.1	95.2	95.2	96.3	96.7	96.7	97.1	97.1	97.5	98.1
IV 300	45.6	80.4	85.4	88.3	91.9	92.6	94.2	95.4	95.4	96.5	96.9	96.9	97.3	97.3	97.7	98.3
IV 200	45.6	80.4	85.4	88.4	92.0	92.6	94.3	95.5	95.5	96.7	97.1	97.1	97.7	97.7	98.1	98.7
IV 100	45.6	80.4	85.4	88.4	92.0	92.7	94.4	95.5	95.5	96.8	97.2	97.2	97.8	97.8	98.3	99.3
IV 0	45.6	80.4	85.4	88.4	92.0	92.7	94.4	95.5	95.5	96.8	97.2	97.2	97.8	97.8	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 2045

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEHART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	34.9 42.2	47.3 57.7	48.7 59.4	49.5 60.3	50.0 60.9	50.3 60.9	50.2 61.1	5.3 61.2	50.4 61.3	50.5 61.4	50.6 61.5	50.6 61.5	50.7 61.6	50.7 61.6	50.8 61.7	50.9 61.8
IVIV 18000 16000	42.2 42.3	57.7 57.9	59.4 59.6	60.3 60.5	60.9 61.1	61.0 61.2	61.2 61.4	61.3 61.5	61.4 61.6	61.5 61.7	61.5 61.8	61.6 61.8	61.6 61.8	61.7 61.9	61.8 62.0	61.9 62.1
IVIV 14000 12000	43.1 44.5	59.2 61.8	61.0 63.6	61.9 64.6	62.4 65.2	62.5 65.3	62.7 65.5	62.8 65.7	62.9 65.8	63.0 65.9	63.1 65.9	63.1 66.0	63.2 66.0	63.2 66.1	63.3 66.2	63.4 66.3
IVIV 10000 9000	46.4 47.4	65.1 66.8	67.1 68.8	68.2 69.9	68.9 70.6	68.9 70.7	69.1 70.9	69.3 71.1	69.4 71.1	69.5 71.2	69.6 71.3	69.6 71.3	69.7 71.4	69.7 71.4	69.8 71.5	70.0 71.7
IVIV 8000 7000	48.8 50.0	69.1 70.9	71.2 73.1	72.6 74.4	73.3 75.2	73.3 75.3	73.6 75.6	73.8 75.8	73.9 75.9	74.0 76.0	74.0 76.1	74.1 76.1	74.1 76.2	74.2 76.2	74.3 76.3	74.4 76.5
IVIV 6000 5000	51.1 51.8	72.6 73.9	74.8 76.2	76.2 77.7	76.9 78.5	77.1 78.7	77.5 79.1	77.7 79.3	77.8 79.4	77.9 79.6	78.0 79.6	78.0 79.7	78.1 79.7	78.1 79.8	78.2 79.9	78.4 80.0
IVIV 4500 4000	52.3 53.2	74.4 75.7	76.8 78.2	78.3 79.9	79.1 80.7	79.4 81.0	79.8 81.4	80.2 81.6	80.2 81.7	80.3 81.9	80.3 82.0	80.3 82.0	80.4 82.1	80.4 82.1	80.5 82.2	80.7 82.3
IVIV 3500 3000	53.4 54.5	76.1 77.8	78.6 80.5	80.2 82.2	81.2 83.2	81.4 83.4	82.0 84.2	82.2 84.4	82.3 84.4	82.5 84.6	82.5 84.7	82.6 84.7	82.6 84.8	82.7 84.8	82.8 84.9	82.9 85.1
IVIV 2500 2000	55.4 56.1	79.1 80.7	82.0 83.8	83.7 85.5	84.8 86.8	85.1 87.1	85.8 88.0	86.0 88.2	86.1 88.3	86.4 88.6	86.4 88.6	86.5 88.7	86.5 88.7	86.6 88.8	86.7 88.9	86.8 89.0
IVIV 1800 1500	56.2 57.2	80.8 82.4	84.1 85.9	85.8 87.8	87.1 89.2	87.4 89.5	88.3 90.6	88.5 90.8	88.6 90.9	88.9 91.1	88.9 91.2	88.9 91.2	89.0 91.3	89.0 91.3	89.1 91.4	89.3 91.6
IVIV 1200 1000	57.7 57.8	83.8 84.2	87.4 87.9	89.4 90.2	90.9 91.8	91.3 92.3	92.4 93.5	92.6 93.7	92.7 93.8	93.0 94.1	93.0 94.2	93.1 94.2	93.1 94.3	93.2 94.3	93.3 94.4	93.4 94.6
IVIV 900 800	57.8 57.9	84.4 84.7	88.3 88.9	90.7 91.4	92.3 93.2	92.9 93.9	94.0 95.1	94.3 95.3	94.4 95.4	94.7 95.7	94.7 95.7	94.8 95.8	94.8 95.8	94.9 95.9	95.0 96.0	95.1 96.1
IVIV 700 600	58.0 58.0	85.0 85.2	89.3 89.6	91.9 92.2	93.8 94.2	94.5 94.9	95.7 96.1	96.0 96.5	96.1 96.7	96.4 97.0	96.5 97.1	96.5 97.1	96.6 97.2	96.6 97.2	96.7 97.3	96.9 97.5
IVIV 500 400	58.0 58.0	85.4 85.4	89.8 89.9	92.6 92.7	94.8 94.9	95.6 95.7	96.9 97.1	97.3 97.6	97.4 97.8	97.8 98.2	97.9 98.3	97.9 98.3	98.0 98.4	98.0 98.4	98.1 98.5	98.3 98.7
IVIV 300 200	58.0 58.0	85.4 85.4	89.9 89.9	92.7 92.7	95.0 95.0	95.8 95.8	97.3 97.3	97.8 97.8	97.9 98.0	98.6 98.7	98.7 98.9	98.8 98.9	98.9 99.1	98.9 99.1	99.0 99.3	99.2 99.5
IVIV 100 0	58.0 58.0	85.4 85.4	89.9 89.9	92.7 92.7	95.0 95.0	95.8 95.8	97.4 97.4	97.9 97.9	98.1 98.1	98.7 98.7	98.9 98.9	99.0 99.0	99.1 99.1	99.2 99.2	99.4 99.5	99.8 100.0

TOTAL NUMBER OF OBSERVATIONS 2045



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TLEWFSSEE/SEWART AFB

43-45, 47, 49-66

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	41.1 49.7	46.6 56.7	46.8 57.0	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1	46.8 57.1
IVIV 18000 16000	49.9 50.3	56.9 57.4	57.2 57.7	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8	57.3 57.8
IVIV 14000 12000	51.6 53.2	59.1 60.9	59.4 61.3	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4	59.6 61.4
IVIV 10000 9000	55.1 56.2	53.7 65.3	64.0 65.7	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8	64.2 65.8
IVIV 8000 7000	57.5 58.4	66.9 68.2	67.3 68.7	67.6 68.9	67.6 69.0	67.7 69.0	67.7 69.1	67.7 69.1	67.7 69.1	67.7 69.1	67.7 69.1	67.7 69.1	67.7 69.1	67.7 69.1	67.7 69.1	67.7 69.1
IVIV 6000 5000	59.2 61.5	69.6 71.4	70.1 71.9	70.4 72.3	70.5 72.4	70.6 72.4	70.6 72.5	70.6 72.5	70.6 72.5	70.6 72.5	70.6 72.5	70.6 72.5	70.6 72.5	70.6 72.5	70.6 72.5	70.6 72.5
IVIV 4500 4000	62.1 64.3	73.0 75.9	73.6 76.7	74.0 77.1	74.1 77.2	74.2 77.3	74.2 77.3	74.2 77.3	74.2 77.3	74.2 77.3	74.2 77.3	74.2 77.3	74.2 77.3	74.2 77.3	74.2 77.3	74.2 77.3
IVIV 3500 3000	65.8 68.8	77.9 81.8	78.7 82.7	79.1 83.1	79.3 83.3	79.4 83.5	79.4 83.6	79.4 83.6	79.4 83.6	79.5 83.7	79.5 83.7	79.5 83.7	79.5 83.7	79.5 83.7	79.5 83.7	79.5 83.7
IVIV 2500 2000	71.1 73.1	85.3 88.7	86.4 90.0	86.8 90.5	87.0 90.7	87.2 90.9	87.3 91.0	87.3 91.1	87.3 91.1	87.4 91.1	87.4 91.1	87.4 91.1	87.4 91.1	87.4 91.1	87.4 91.1	87.4 91.1
IVIV 1800 1500	73.5 74.4	89.4 91.1	90.7 92.4	91.2 92.9	91.4 93.2	91.6 93.4	91.7 93.5	91.8 93.6	91.8 93.6	91.9 93.7	91.9 93.7	91.9 93.7	91.9 93.7	91.9 93.7	91.9 93.7	91.9 93.7
IVIV 1200 1000	75.1 75.2	92.6 93.5	94.1 95.1	94.8 95.9	95.3 96.6	95.6 96.9	95.6 97.0	95.7 97.1	95.7 97.1	95.7 97.3	95.8 97.3	95.8 97.3	95.8 97.3	95.8 97.3	95.8 97.3	95.8 97.3
IVIV 900 800	75.2 75.3	93.7 93.9	95.5 95.9	96.4 96.8	97.1 97.7	97.4 98.0	97.7 98.2	97.7 98.4	97.7 98.4	97.9 98.6	97.9 98.6	97.9 98.6	97.9 98.6	97.9 98.6	97.9 98.6	97.9 98.6
IVIV 700 600	75.3 75.4	94.0 94.1	96.1 96.4	97.0 97.3	97.9 98.3	98.2 98.6	98.2 99.0	98.6 99.1	98.6 99.1	98.9 99.3	98.9 99.4	98.9 99.4	98.9 99.4	98.9 99.4	98.9 99.4	98.9 99.4
IVIV 500 400	75.4 75.4	94.1 94.2	96.4 96.4	97.4 97.5	98.3 98.5	98.7 98.9	99.1 99.3	99.3 99.6	99.3 99.6	99.6 99.8	99.6 99.9	99.6 99.9	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9
IVIV 300 200	75.4 75.4	94.2 94.2	96.4 96.4	97.5 97.5	98.5 98.5	98.9 98.9	99.4 99.4	99.7 99.7	99.7 99.7	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IVIV 100 0	75.4 75.4	94.2 94.2	96.4 96.4	97.5 97.5	98.5 98.5	98.9 98.9	99.4 99.4	99.7 99.7	99.7 99.7	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 2045

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	47.2	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
IV 20000	57.2	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 18000	50.3	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 16000	50.5	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 14000	52.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 12000	54.7	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
IV 10000	56.4	61.4	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 9000	56.8	62.7	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
IV 8000	58.2	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 7000	59.3	65.4	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IV 6000	60.2	66.4	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
IV 5000	63.4	70.3	70.4	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
IV 4500	65.8	73.2	73.4	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 4000	69.6	77.7	77.9	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 3500	72.5	81.6	81.8	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IV 3000	76.5	86.7	87.0	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 2500	78.4	89.7	90.1	90.5	90.7	90.7	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8
IV 2000	80.2	92.7	93.3	93.6	93.9	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 1800	80.4	93.5	94.1	94.6	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1500	81.1	94.7	95.5	96.0	96.3	96.5	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 1200	81.2	95.3	96.1	96.8	97.3	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8
IV 1000	81.5	95.7	96.6	97.3	98.1	98.2	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6
IV 900	81.5	95.7	96.7	97.5	98.3	98.5	98.6	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
IV 800	81.6	95.9	97.0	97.8	98.7	98.9	99.1	99.2	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4
IV 700	81.6	95.9	97.0	97.8	98.8	99.0	99.2	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 600	81.7	96.0	97.1	97.8	98.9	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8
IV 500	81.7	96.0	97.1	97.8	99.0	99.2	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	81.7	96.0	97.1	97.8	99.0	99.2	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	81.7	96.0	97.1	97.8	99.0	99.2	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	81.7	96.0	97.1	97.8	99.0	99.2	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	81.7	96.0	97.1	97.8	99.0	99.2	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	81.7	96.0	97.1	97.8	99.0	99.2	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS. 2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	45.1 57.9	47.1 61.3	47.2 61.6	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8	47.4 61.8
IV 18000 16000	58.5 58.7	61.9 62.2	62.1 62.4	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6	62.3 62.6
IV 14000 12000	62.4 63.2	63.9 67.4	64.2 67.6	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8	64.4 67.8
IV 10000 9000	65.1 65.9	70.1 71.2	70.4 71.6	70.7 71.8	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9	70.7 71.9
IV 8000 7000	68.2 69.3	74.1 75.4	74.4 75.8	74.6 76.0	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1	74.7 76.1
IV 6000 5000	70.4 73.7	76.9 80.7	77.3 81.3	77.6 81.6	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8	77.7 81.8
IV 4500 4000	75.2 77.6	82.7 86.2	83.3 86.8	83.6 87.2	83.8 87.4	83.8 87.4	83.8 87.5	83.8 87.5	83.8 87.5	83.8 87.5	83.8 87.5	83.8 87.5	83.8 87.5	83.8 87.5	83.8 87.5	83.8 87.5
IV 3500 3000	79.3 81.2	88.4 91.2	89.0 92.0	89.4 92.4	89.6 92.7	89.6 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8
IV 2500 2000	82.3 83.3	92.8 94.6	93.7 95.7	94.2 96.2	94.5 96.6	94.5 96.6	94.6 96.7	94.6 96.7	94.6 96.7	94.6 96.7	94.6 96.7	94.6 96.7	94.6 96.7	94.6 96.7	94.6 96.7	94.6 96.7
IV 1800 1500	83.1 83.2	94.7 95.2	95.8 96.4	96.3 97.0	96.7 97.6	96.7 97.6	96.8 97.7	96.8 97.7	96.8 97.7	96.8 97.7	96.8 97.7	96.8 97.7	96.8 97.7	96.8 97.7	96.8 97.7	96.8 97.7
IV 1200 1000	83.5 83.6	95.9 96.2	97.3 97.6	97.8 98.1	98.6 98.8	98.6 98.9	98.8 99.0	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1
IV 900 800	83.6 83.6	96.3 96.3	97.7 97.7	98.2 98.2	98.9 99.0	98.9 99.0	99.3 99.3	99.3 99.3	99.3 99.3	99.3 99.3	99.3 99.3	99.3 99.3	99.3 99.3	99.3 99.3	99.3 99.3	99.3 99.3
IV 700 600	83.6 83.7	96.3 96.3	97.7 97.8	98.2 98.3	99.1 99.2	99.2 99.3	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.8	99.6 99.8	99.6 99.8
IV 500 400	83.7 83.7	96.3 96.3	97.8 97.8	98.3 98.3	99.3 99.3	99.4 99.4	99.8 99.8	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9
IV 300 200	83.7 83.7	96.3 96.3	97.8 97.8	98.3 98.3	99.3 99.4	99.4 99.4	99.8 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
IV 100 0	83.7 83.7	96.3 96.3	97.8 97.8	98.3 98.3	99.4 99.4	99.4 99.4	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9

TOTAL NUMBER OF OBSERVATIONS 246

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	52.7 53.3	57.3 69.8	57.8 70.3	57.9 70.4	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5	58.0 71.5
IVV 18000 16000	63.6 64.1	70.1 71.7	70.6 71.2	70.8 71.3	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4	70.8 71.4
IVV 14000 12000	65.4 67.2	72.1 74.2	72.6 74.7	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9	72.8 74.9
IVV 10000 9000	68.7 69.5	76.1 77.3	76.8 78.0	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3	77.1 78.3
IVV 8000 7000	71.6 72.1	79.5 81.3	81.3 82.1	81.5 82.5	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6	81.6 82.6
IVV 6000 5000	73.2 75.4	83.1 86.0	83.9 87.0	84.4 87.4	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6	84.5 87.6
IVV 4500 4000	75.7 76.6	87.1 88.6	88.3 89.8	88.8 90.3	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6	89.0 90.6
IVV 3500 3000	77.2 77.9	89.9 91.3	91.3 92.8	92.1 93.8	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2	92.4 94.2
IVV 2500 2000	78.2 78.6	92.2 93.1	93.8 94.8	94.9 96.1	95.4 96.5	95.4 96.6	95.5 96.7	95.5 96.8	95.5 96.8	95.5 96.9	95.5 96.9	95.5 96.9	95.5 96.9	95.5 96.9	95.5 96.9	95.5 96.9
IVV 1800 1500	78.6 78.6	93.3 93.7	95.0 95.6	96.2 97.1	96.7 97.7	96.8 97.8	96.9 97.9	97.0 98.1	97.1 98.1	97.1 98.1	97.1 98.1	97.1 98.1	97.1 98.1	97.1 98.1	97.1 98.1	97.1 98.1
IVV 1200 1000	78.7 78.7	93.8 93.9	95.7 96.0	97.4 97.8	98.0 98.5	98.0 98.6	98.2 98.8	98.3 98.9	98.4 99.0	98.4 99.0	98.4 99.0	98.4 99.0	98.4 99.0	98.4 99.0	98.4 99.0	98.4 99.0
IVV 900 800	78.7 78.7	94.0 94.1	96.1 96.1	97.8 97.8	98.6 98.7	98.7 98.8	98.9 99.0	99.0 99.3	99.1 99.3	99.1 99.4	99.1 99.4	99.1 99.4	99.1 99.4	99.1 99.4	99.1 99.4	99.1 99.4
IVV 700 600	78.7 78.7	94.1 94.1	96.1 96.1	97.8 97.9	98.7 98.8	98.8 98.9	99.1 99.3	99.4 99.6	99.4 99.6	99.5 99.7	99.5 99.7	99.5 99.7	99.5 99.7	99.5 99.7	99.5 99.7	99.5 99.7
IVV 500 400	78.7 78.7	94.1 94.1	96.3 96.3	98.1 98.2	99.0 99.1	99.1 99.2	99.5 99.6	99.9 99.9	99.9 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IVV 300 200	78.7 78.7	94.1 94.1	96.3 96.3	98.2 98.2	99.1 99.1	99.2 99.2	99.6 99.6	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IVV 100 0	78.7 78.7	94.1 94.1	96.3 96.3	98.2 98.2	99.1 99.1	99.2 99.2	99.6 99.6	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 2046

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13327  
STATION

SPYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	74.2	66.4	67.3	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
IV 18000 16000	73.5	73.5	74.4	74.9	75.1	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 14000 12000	73.8	73.8	74.7	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3	75.3	75.3
IV 10000 9000	74.7	74.8	75.6	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 8000 7000	74.3	79.5	81.4	81.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0
IV 6000 5000	74.6	81.4	81.4	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0
IV 4500 4000	75.4	82.1	83.3	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.1	84.1
IV 3500 3000	76.8	84.5	85.7	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.5	86.5
IV 2500 2000	77.5	85.8	87.1	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1
IV 1800 1500	78.6	87.3	88.6	89.3	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8
IV 1200 1000	78.9	88.7	90.2	90.9	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5
IV 900 800	79.4	89.8	91.3	92.2	92.6	92.7	92.8	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0
IV 700 600	79.5	90.4	92.1	93.1	93.5	93.6	93.7	93.7	93.7	93.8	93.8	93.8	93.9	93.9	93.9	93.9
IV 500 400	79.8	91.8	93.7	94.8	95.2	95.3	95.4	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6
IV 300 200	79.9	92.2	94.2	95.3	95.7	95.9	95.9	96.0	96.0	96.1	96.1	96.1	96.2	96.2	96.2	96.2
IV 100 0	79.9	93.1	95.2	96.4	96.9	97.1	97.1	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.5	97.5
IV 100 0	79.9	93.2	95.4	96.5	97.1	97.2	97.3	97.4	97.4	97.5	97.5	97.5	97.6	97.6	97.6	97.6
IV 100 0	79.9	93.5	95.7	96.9	97.4	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.9	97.9	97.9	97.9
IV 100 0	79.9	93.5	95.7	97.0	97.6	97.7	97.7	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.1	98.1
IV 100 0	79.9	93.6	96.0	97.5	98.2	98.4	98.5	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.9	98.9
IV 100 0	79.9	93.7	96.1	97.7	98.5	98.6	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
IV 100 0	79.9	93.8	96.2	97.7	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
IV 100 0	79.9	93.8	96.3	97.9	98.7	98.9	99.1	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5
IV 100 0	79.9	93.8	96.3	97.9	98.8	99.0	99.2	99.3	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6
IV 100 0	79.9	93.8	96.3	97.9	98.9	99.1	99.3	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.8
IV 100 0	79.9	93.8	96.3	97.9	98.9	99.1	99.4	99.5	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0
IV 100 0	79.9	93.8	96.3	97.9	98.9	99.1	99.4	99.5	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2344

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SPYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	44.5	68.2	70.9	72.1	73.5	73.6	73.6	73.7	73.7	73.9	74.0	74.0	74.1	74.1	74.2	74.2
IVIV 18000	46.5	73.2	76.1	77.4	78.9	79.0	79.0	79.1	79.1	79.3	79.4	79.4	79.5	79.5	79.6	79.6
IVIV 16000	46.9	73.3	76.2	77.6	79.1	79.2	79.2	79.2	79.3	79.5	79.6	79.6	79.6	79.6	79.7	79.7
IVIV 14000	47.9	74.8	77.7	79.1	80.7	80.8	80.8	80.9	81.1	81.2	81.2	81.2	81.2	81.2	81.3	81.3
IVIV 12000	49.1	76.6	79.7	81.0	82.7	82.8	82.8	82.9	83.1	83.2	83.2	83.2	83.3	83.3	83.4	83.4
IVIV 10000	50.4	79.0	82.1	83.4	85.1	85.2	85.2	85.3	85.3	85.5	85.6	85.6	85.7	85.7	85.8	85.8
IVIV 9000	50.6	80.2	83.4	84.9	86.5	86.6	86.6	86.7	86.7	87.0	87.1	87.1	87.1	87.1	87.2	87.2
IVIV 8000	51.3	81.8	85.0	86.5	88.2	88.3	88.3	88.3	88.4	88.6	88.7	88.7	88.8	88.8	88.9	88.9
IVIV 7000	52.1	83.4	86.9	88.4	90.1	90.2	90.2	90.3	90.3	90.5	90.6	90.6	90.7	90.7	90.8	90.8
IVIV 6000	52.5	84.1	87.8	89.4	91.2	91.3	91.3	91.3	91.4	91.6	91.7	91.7	91.8	91.8	91.9	91.9
IVIV 5000	53.0	85.2	88.9	90.7	92.5	92.7	92.7	92.8	92.8	93.0	93.2	93.2	93.3	93.3	93.4	93.4
IVIV 4500	53.1	85.9	89.6	91.4	93.1	93.3	93.3	93.4	93.5	93.7	93.8	93.8	93.9	93.9	94.0	94.0
IVIV 4000	53.4	86.7	90.4	92.2	94.0	94.2	94.2	94.3	94.3	94.5	94.7	94.7	94.8	94.8	94.9	94.9
IVIV 3500	53.8	87.1	90.8	92.7	94.5	94.7	94.7	94.8	94.9	95.1	95.2	95.2	95.3	95.3	95.4	95.4
IVIV 3000	54.0	87.6	91.6	93.6	95.4	95.6	95.6	95.7	95.7	95.9	96.1	96.1	96.2	96.2	96.3	96.3
IVIV 2500	54.2	88.0	92.2	94.2	96.2	96.4	96.4	96.5	96.5	96.7	96.9	96.9	97.0	97.0	97.1	97.1
IVIV 2000	54.2	88.3	92.5	94.5	96.5	96.7	96.7	96.8	96.8	97.0	97.2	97.2	97.3	97.3	97.4	97.4
IVIV 1800	54.3	88.4	92.6	94.7	96.6	96.8	96.8	96.9	97.0	97.2	97.3	97.3	97.5	97.5	97.6	97.6
IVIV 1500	54.5	88.9	93.2	95.3	97.2	97.5	97.5	97.6	97.6	97.8	98.0	98.0	98.1	98.1	98.2	98.2
IVIV 1200	54.6	89.2	93.6	95.7	97.7	97.9	97.9	98.0	98.1	98.3	98.4	98.4	98.5	98.5	98.6	98.6
IVIV 1000	54.6	89.2	93.7	95.8	97.8	98.0	98.0	98.1	98.2	98.4	98.5	98.5	98.6	98.6	98.7	98.7
IVIV 900	54.6	89.2	93.8	95.9	97.9	98.1	98.1	98.2	98.3	98.5	98.6	98.6	98.7	98.7	98.8	98.8
IVIV 800	54.6	89.4	93.9	96.1	98.1	98.3	98.3	98.4	98.4	98.6	98.8	98.8	98.9	98.9	99.0	99.0
IVIV 700	54.6	89.4	93.9	96.1	98.1	98.3	98.3	98.4	98.4	98.6	98.8	98.8	98.9	98.9	99.0	99.0
IVIV 600	54.6	89.4	94.0	96.1	98.1	98.4	98.4	98.5	98.6	98.9	99.1	99.1	99.2	99.2	99.3	99.3
IVIV 500	54.6	89.6	94.1	96.2	98.2	98.6	98.6	98.8	98.9	99.2	99.3	99.3	99.4	99.4	99.5	99.5
IVIV 400	54.6	89.6	94.1	96.2	98.2	98.6	98.6	98.8	98.9	99.2	99.3	99.3	99.4	99.4	99.5	99.5
IVIV 300	54.6	89.6	94.1	96.2	98.2	98.6	98.6	98.8	98.9	99.2	99.3	99.3	99.4	99.4	99.5	99.5
IVIV 200	54.6	89.6	94.1	96.2	98.2	98.6	98.6	98.8	98.9	99.2	99.4	99.4	99.5	99.5	99.6	99.7
IVIV 100	54.6	89.6	94.1	96.2	98.2	98.6	98.6	98.8	98.9	99.2	99.4	99.4	99.5	99.5	99.6	99.7
IVIV 0	54.6	89.6	94.1	96.2	98.2	98.6	98.6	98.8	98.9	99.3	99.4	99.4	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 1962

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28831

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

43-45, 47, 49-66

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

C300-C500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	28.6 23.4	49.5 57.2	53.9 61.9	56.1 64.3	58.8 67.1	59.4 67.8	60.7 69.2	60.9 69.4	61.0 69.5	61.3 69.8	61.5 70.0	61.5 71.0	61.8 70.3	61.9 71.4	61.9 71.4	62.1 70.6
IVV 18000 16000	23.6 23.9	57.5 57.9	62.2 62.6	64.6 64.9	67.4 67.8	68.1 68.5	69.5 69.9	69.7 70.1	69.8 70.1	70.1 70.4	70.3 70.6	70.3 70.6	70.6 71.0	70.7 71.0	70.7 71.1	70.9 71.3
IVV 14000 12000	35.1 26.4	59.5 61.4	64.2 66.3	66.6 68.9	69.5 71.9	70.1 72.5	71.6 74.1	71.8 74.3	71.8 74.3	72.1 74.6	72.3 74.8	72.3 74.8	72.7 75.2	72.8 75.3	72.8 75.3	73.0 75.5
IVV 10000 9000	38.4 38.8	64.2 65.1	69.3 70.0	72.1 72.9	75.2 76.2	75.8 76.7	77.4 78.3	77.7 78.5	77.7 78.6	78.0 78.9	78.2 79.1	78.2 79.1	78.6 79.5	78.7 79.6	78.7 79.6	79.0 79.8
IVV 8000 7000	39.9 40.8	67.1 68.7	72.2 74.0	75.5 77.3	78.5 80.5	79.3 81.2	80.9 82.9	81.7 83.2	81.2 83.3	81.6 83.6	81.8 83.8	81.8 83.8	82.2 84.3	82.3 84.3	82.3 84.4	82.5 84.6
IVV 6000 5000	41.4 42.2	69.9 71.9	75.6 77.8	79.0 81.1	82.2 84.5	82.9 85.2	84.6 87.0	84.9 87.4	85.0 87.5	85.4 88.0	85.7 88.2	85.7 88.2	86.1 88.7	86.1 88.7	86.2 88.8	86.4 89.0
IVV 4500 4000	42.5 42.9	72.4 73.6	78.4 79.7	81.8 83.1	85.1 86.4	85.8 87.2	87.6 88.9	88.0 89.3	88.1 89.4	88.6 90.0	88.8 90.2	88.8 90.2	89.3 90.7	89.3 90.8	89.4 90.8	89.6 91.0
IVV 3500 3000	43.2 43.4	74.3 74.9	80.5 81.2	83.8 84.6	87.2 87.9	87.9 88.7	89.7 90.5	90.1 90.9	90.2 91.3	90.7 91.6	91.0 91.8	91.0 91.8	91.5 92.4	91.5 92.5	91.6 92.5	91.8 92.8
IVV 2500 2000	43.8 44.2	75.7 76.6	82.0 83.7	85.4 86.4	88.8 89.8	89.6 90.6	91.4 92.4	91.8 92.8	91.9 92.9	92.5 93.5	92.8 93.7	92.8 93.7	93.3 94.3	93.4 94.3	93.4 94.4	93.7 94.6
IVV 1800 1500	44.2 44.4	76.7 77.2	83.1 83.7	86.5 87.1	89.9 90.6	90.7 91.4	92.5 93.2	92.9 93.6	93.0 93.7	93.6 94.3	93.8 94.5	93.8 94.5	94.4 95.1	94.4 95.2	94.5 95.2	94.8 95.5
IVV 1200 1000	44.6 44.8	77.8 78.1	84.5 84.9	88.0 88.5	91.6 92.2	92.4 92.9	94.2 94.8	94.6 95.2	94.8 95.3	95.4 95.9	95.6 96.1	95.6 96.1	96.2 96.7	96.2 96.7	96.3 96.8	96.5 97.1
IVV 900 800	44.8 44.8	78.2 78.3	85.0 85.2	88.7 88.9	92.4 92.6	93.2 93.4	95.0 95.3	95.4 95.7	95.5 95.8	96.1 96.4	96.4 96.7	96.4 96.7	96.9 97.2	97.0 97.3	97.0 97.3	97.3 97.7
IVV 700 600	44.8 44.8	78.3 78.3	85.3 85.3	89.0 89.1	92.7 92.9	93.5 93.7	95.4 95.6	95.8 96.1	95.9 96.2	96.5 96.8	96.8 97.1	96.8 97.1	97.3 97.7	97.4 97.8	97.5 97.8	97.8 98.2
IVV 500 400	44.8 44.8	78.4 78.4	85.6 85.6	89.5 89.5	93.2 93.3	94.1 94.2	96.1 96.2	96.6 96.6	96.7 96.7	97.3 97.5	97.7 97.8	97.7 97.8	98.3 98.4	98.3 98.4	98.4 98.5	98.8 98.9
IVV 300 200	44.8 44.8	78.4 78.4	85.6 85.6	89.5 89.6	93.3 93.3	94.2 94.2	96.2 96.3	96.7 96.8	96.8 96.9	97.6 97.7	97.9 98.0	97.9 98.0	98.5 98.7	98.5 98.7	98.6 98.8	99.1 99.4
IVV 100 0	44.8 44.8	78.4 78.4	85.6 85.6	89.6 89.6	93.4 93.4	94.3 94.3	96.3 96.3	96.8 96.8	97.0 97.0	97.7 97.7	98.0 98.0	98.1 98.1	98.7 98.7	98.8 98.8	98.8 98.8	99.5 100.0

TOTAL NUMBER OF OBSERVATIONS 1962

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

C600-C800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	34.5 42.7	49.7 60.6	51.6 62.6	53.1 64.1	54.4 65.5	54.7 65.8	55.0 66.2	55.2 66.4	55.3 66.5	55.4 66.5	55.4 66.5	55.4 66.6	55.5 66.6	55.5 66.6	55.5 66.6	55.7 66.8
IVIV 18000 16000	43.2 43.6	61.1 61.6	63.1 63.6	64.6 65.1	66.3 66.5	66.3 66.8	66.7 67.2	66.9 67.4	67.0 67.5	67.0 67.5	67.0 67.5	67.1 67.6	67.1 67.6	67.1 67.6	67.1 67.6	67.3 67.8
IVIV 14000 12000	44.8 45.7	63.0 64.4	65.1 66.6	66.7 68.2	68.1 69.8	68.4 70.2	68.8 70.5	69.0 71.8	69.1 70.8	69.1 70.9	69.1 70.9	69.2 70.9	69.2 71.0	69.2 71.0	69.2 71.0	69.4 71.2
IVIV 10000 9000	48.3 48.8	68.0 68.9	70.4 71.3	72.3 73.3	73.9 74.9	74.4 75.3	74.7 75.7	75.0 75.9	75.0 76.0	75.1 76.0	75.1 76.0	75.1 76.1	75.2 76.1	75.2 76.1	75.2 76.1	75.4 76.4
IVIV 8000 7000	50.4 51.4	71.6 73.1	74.0 75.7	76.0 77.8	77.6 79.5	78.1 79.9	78.5 80.4	78.8 80.6	78.9 80.7	78.9 80.7	79.0 80.7	79.0 80.8	79.0 80.8	79.0 80.8	79.0 80.8	79.2 81.0
IVIV 6000 5000	51.9 52.8	74.1 76.1	77.0 79.2	80.8 81.4	80.8 83.2	81.3 83.7	81.9 84.3	82.2 84.6	82.2 84.7	82.4 84.8	82.4 84.8	82.4 84.9	82.5 84.9	82.5 84.9	82.5 84.9	82.7 85.1
IVIV 4500 4000	53.0 53.6	76.7 78.0	79.8 81.1	82.0 83.4	83.7 85.1	84.3 85.6	84.8 86.2	85.2 86.6	85.2 86.6	85.4 86.8	85.4 86.8	85.4 86.9	85.5 87.0	85.5 87.0	85.5 87.0	85.7 87.2
IVIV 3500 3000	53.9 54.3	78.4 79.3	81.5 82.4	83.8 84.8	85.6 86.6	86.1 87.1	86.7 87.7	87.1 88.1	87.2 88.1	87.3 88.3	87.3 88.3	87.4 88.3	87.5 88.4	87.5 88.4	87.5 88.4	87.7 88.6
IVIV 2500 2000	55.2 56.0	80.8 81.8	84.0 85.1	86.4 87.7	88.2 89.4	88.7 90.0	89.4 90.6	89.8 91.0	89.8 91.1	90.0 91.3	90.0 91.3	90.1 91.3	90.2 91.5	90.2 91.5	90.2 91.5	90.4 91.7
IVIV 1800 1500	56.2 56.9	82.1 83.5	85.4 87.0	88.1 89.8	90.0 91.8	90.5 92.3	91.1 93.0	91.5 93.5	91.6 93.5	91.8 93.7	91.8 93.7	91.8 93.8	92.0 93.9	92.0 93.9	92.0 93.9	92.2 94.1
IVIV 1200 1000	57.5 57.7	84.6 85.2	88.1 88.9	90.9 91.8	93.1 94.2	93.7 94.8	94.4 95.5	94.9 96.0	95.0 96.0	95.2 96.2	95.2 96.2	95.2 96.3	95.4 96.4	95.4 96.4	95.4 96.4	95.6 96.6
IVIV 900 800	57.8 57.8	85.5 85.8	89.2 89.7	92.3 92.8	94.6 95.2	95.2 95.7	95.9 96.5	96.4 97.0	96.4 97.0	96.6 97.2	96.6 97.2	96.6 97.3	96.9 97.5	96.9 97.5	96.9 97.5	97.1 97.7
IVIV 700 600	58.0 58.0	86.0 86.1	90.0 90.2	93.0 93.5	95.4 96.0	96.0 96.5	96.8 97.5	97.3 97.9	97.3 98.0	97.6 98.2	97.6 98.2	97.6 98.2	97.8 98.4	97.8 98.4	97.8 98.4	98.0 98.6
IVIV 500 400	58.0 58.0	86.1 86.1	90.3 90.5	93.7 93.9	96.3 96.5	96.9 97.1	98.0 98.2	98.4 98.7	98.5 98.8	98.7 99.0	98.7 99.0	98.8 99.0	99.0 99.2	99.0 99.2	99.0 99.2	99.2 99.5
IVIV 300 200	58.0 58.0	86.1 86.1	90.5 90.5	93.9 93.9	96.5 96.5	97.1 97.1	98.2 98.2	98.7 98.8	98.8 98.9	99.0 99.1	99.0 99.1	99.0 99.1	99.2 99.2	99.2 99.4	99.2 99.4	99.6 99.9
IVIV 100 0	58.0 58.0	86.1 86.1	90.5 90.5	93.9 93.9	96.5 96.5	97.1 97.1	98.2 98.2	98.8 98.8	98.9 98.9	99.1 99.1	99.1 99.1	99.2 99.2	99.4 99.4	99.4 99.4	99.5 99.5	99.9 100.0

TOTAL NUMBER OF OBSERVATIONS 1962



DATA PROCESSING DIVISION  
LTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	41.6 49.6	49.3 59.2	49.5 59.4	50.1 59.9	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3	50.5 60.3
IVIV 18000 16000	57.2 50.6	59.8 67.2	60.0 60.4	60.5 60.9	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4	61.0 61.4
IVIV 14000 12000	52.2 53.9	62.2 64.4	62.2 64.7	62.7 65.2	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6	63.2 65.6
IVIV 10000 9000	56.1 56.7	67.1 68.7	67.4 68.2	67.9 68.8	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4	68.5 69.4
IVIV 8000 7000	57.8 58.5	69.7 70.5	70.0 71.0	70.6 71.7	71.2 72.2	71.3 72.3	71.3 72.3	71.3 72.3	71.3 72.3	71.3 72.3	71.3 72.3	71.3 72.3	71.3 72.3	71.3 72.3	71.3 72.3	71.3 72.3
IVIV 6000 5000	58.8 60.6	71.3 73.8	71.8 74.2	72.4 75.1	73.0 75.7	73.0 75.8	73.0 75.8	73.0 75.8	73.0 75.8	73.0 75.8	73.0 75.8	73.0 75.8	73.0 75.8	73.0 75.8	73.0 75.8	73.0 75.8
IVIV 4500 4000	61.6 63.9	75.4 77.8	75.4 78.2	76.3 79.2	77.0 79.8	77.0 79.9	77.0 79.9	77.0 79.9	77.0 79.9	77.0 79.9	77.0 79.9	77.0 79.9	77.0 79.9	77.0 79.9	77.0 79.9	77.0 79.9
IVIV 3500 3000	56.6 69.6	81.9 84.4	81.4 85.0	82.4 85.9	83.1 86.6	83.2 86.7	83.2 86.7	83.2 86.7	83.2 86.7	83.2 86.7	83.2 86.7	83.2 86.7	83.2 86.7	83.2 86.7	83.2 86.7	83.2 86.7
IVIV 2500 2000	71.8 73.6	87.2 90.1	87.9 90.8	88.8 91.8	89.6 92.7	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8	89.7 92.8
IVIV 1800 1500	74.2 75.5	90.8 92.9	91.5 93.9	92.6 95.2	93.4 96.0	93.5 96.2	93.5 96.2	93.5 96.2	93.5 96.2	93.5 96.2	93.5 96.2	93.5 96.2	93.5 96.2	93.5 96.2	93.5 96.2	93.5 96.2
IVIV 1200 1000	76.1 76.1	94.1 94.5	95.2 95.7	96.5 97.1	97.5 98.2	97.6 98.3	97.7 98.4	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5
IVIV 900 800	76.1 76.2	94.8 94.9	95.9 96.1	97.4 97.6	98.5 98.7	98.7 98.9	98.8 99.0	98.9 99.1	98.9 99.1	98.9 99.1	98.9 99.1	98.9 99.1	98.9 99.1	98.9 99.1	98.9 99.1	98.9 99.1
IVIV 700 600	76.2 76.2	95.0 95.1	96.2 96.3	97.7 97.8	98.7 98.9	98.9 99.1	99.1 99.3	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4
IVIV 500 400	76.2 76.2	95.1 95.1	96.3 96.3	97.9 97.9	99.0 99.0	99.3 99.3	99.5 99.5	99.6 99.6	99.6 99.6	99.6 99.6	99.6 99.6	99.6 99.6	99.6 99.6	99.6 99.6	99.6 99.6	99.6 99.6
IVIV 300 200	76.2 76.2	95.1 95.1	96.3 96.3	97.9 97.9	99.0 99.0	99.3 99.3	99.5 99.5	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7
IVIV 100 0	76.2 76.2	95.1 95.1	96.3 96.3	97.9 97.9	99.0 99.0	99.3 99.3	99.5 99.5	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7

TOTAL NUMBER OF OBSERVATIONS 1962

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

43-45,47,49-66

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	40.5	44.8	44.8	45.2	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IVIV 18000	51.5	56.6	56.7	57.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IVIV 16000	51.7	56.9	57.0	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
IVIV 14000	53.1	58.2	58.3	58.6	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IVIV 12000	54.7	60.7	60.8	61.1	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IVIV 10000	56.1	62.5	62.6	63.0	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IVIV 9000	56.8	63.6	63.8	64.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IVIV 8000	58.3	65.6	65.9	66.2	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IVIV 7000	58.8	66.1	66.4	66.8	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
IVIV 6000	59.2	67.0	67.3	67.7	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
IVIV 5000	62.1	70.7	71.1	71.6	72.3	72.4	72.4	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5
IVIV 4500	64.3	73.1	73.6	74.1	74.9	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IVIV 4000	70.5	80.1	80.7	81.2	82.1	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IVIV 3500	74.3	84.6	85.2	85.7	86.6	86.7	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IVIV 3000	77.7	88.7	89.3	90.0	91.0	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IVIV 2500	80.3	91.7	92.4	93.0	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IVIV 2000	81.2	93.1	93.9	94.5	95.6	95.7	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IVIV 1800	81.4	93.4	94.4	95.1	96.2	96.3	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5
IVIV 1500	81.8	94.4	95.6	96.3	97.5	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IVIV 1200	82.0	94.7	95.9	96.7	97.9	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.3
IVIV 1000	82.1	95.1	96.4	97.2	98.4	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IVIV 900	82.1	95.2	96.4	97.3	98.5	98.7	98.8	98.8	98.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0
IVIV 800	82.1	95.3	96.5	97.5	98.7	98.9	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IVIV 700	82.3	95.5	96.8	97.8	99.1	99.4	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IVIV 600	82.3	95.6	96.9	97.9	99.2	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IVIV 500	82.3	95.6	96.9	97.9	99.2	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IVIV 400	82.3	95.6	96.9	97.9	99.2	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IVIV 300	82.3	95.6	96.9	97.9	99.2	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IVIV 200	82.3	95.6	96.9	97.9	99.2	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IVIV 100	82.3	95.6	96.9	97.9	99.2	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IVIV 0	82.3	95.6	96.9	97.9	99.2	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1962

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28831

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 47, 49-66  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	45.6 58.8	50.7 64.9	51.7 64.9	51.1 65.2	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4	51.1 65.4
IVV 18000 16000	59.1 59.4	65.3 65.6	65.3 65.6	65.6 66.0	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1	65.7 66.1
IVV 14000 12000	63.9 63.7	67.4 70.3	67.4 70.4	67.7 70.8	67.9 70.9	67.9 70.9	67.9 71.0	67.9 71.0	67.9 71.0	67.9 71.0	67.9 71.0	67.9 71.0	67.9 71.0	67.9 71.0	67.9 71.0	67.9 71.0
IVV 10000 9000	65.2 66.3	73.2 74.6	73.4 74.8	73.8 75.2	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5	74.1 75.5
IVV 8000 7000	68.1 69.2	76.8 78.4	76.9 78.7	77.4 79.2	77.6 79.5	77.6 79.5	77.7 79.5	77.7 79.5	77.7 79.5	77.7 79.5	77.7 79.5	77.7 79.5	77.7 79.5	77.7 79.5	77.7 79.5	77.7 79.5
IVV 6000 5000	70.2 72.8	79.6 82.6	79.9 82.9	80.3 83.3	80.8 83.8	80.8 83.8	80.9 84.0	80.9 84.0	80.9 84.0	80.9 84.0	80.9 84.0	80.9 84.0	80.9 84.0	80.9 84.0	80.9 84.0	80.9 84.0
IVV 4500 4000	73.7 75.9	83.9 87.3	84.3 87.7	84.8 88.5	85.3 89.0	85.3 89.0	85.5 89.2	85.5 89.2	85.5 89.2	85.5 89.2	85.5 89.2	85.5 89.2	85.5 89.2	85.5 89.2	85.5 89.2	85.5 89.3
IVV 3500 3000	78.5 79.8	90.4 92.4	90.9 92.9	91.7 93.7	92.3 94.5	92.3 94.5	92.4 94.7	92.4 94.8	92.4 94.8	92.4 94.8	92.4 94.8	92.4 94.8	92.4 94.8	92.4 94.8	92.4 94.8	92.4 94.9
IVV 2500 2000	80.9 81.3	93.9 94.8	94.5 95.5	95.4 96.3	96.2 97.2	96.2 97.2	96.3 97.3	96.4 97.4	96.4 97.5	96.4 97.5	96.4 97.5	96.4 97.6	96.4 97.6	96.4 97.6	96.4 97.6	96.4 97.6
IVV 1800 1500	81.5 81.5	95.0 95.3	95.7 96.0	96.6 96.9	97.5 98.0	97.5 98.0	97.7 98.1	97.7 98.2	97.8 98.2	97.8 98.3	97.8 98.3	97.9 98.3	97.9 98.3	97.9 98.3	97.9 98.3	97.9 98.4
IVV 1200 1000	81.5 81.5	95.4 95.6	96.2 96.4	97.1 97.3	98.2 98.5	98.2 98.5	98.3 98.7	98.4 98.7	98.4 98.8	98.5 98.8	98.5 98.8	98.5 98.9	98.5 98.9	98.5 98.9	98.5 98.9	98.5 99.0
IVV 900 800	81.6 81.6	95.7 95.8	96.6 96.7	97.6 97.7	98.8 98.9	98.8 99.0	98.9 99.1	99.1 99.3	99.2 99.4	99.2 99.4	99.2 99.5	99.3 99.5	99.3 99.6	99.4 99.6	99.4 99.6	99.4 99.6
IVV 700 600	81.6 81.6	95.8 95.8	96.8 96.8	97.8 97.8	99.1 99.1	99.1 99.2	99.3 99.4	99.4 99.5	99.5 99.6	99.5 99.6	99.6 99.7	99.6 99.7	99.7 99.8	99.7 99.8	99.7 99.8	99.8 99.9
IVV 500 400	81.6 81.6	95.8 95.8	96.8 96.8	97.8 97.8	99.1 99.1	99.2 99.2	99.4 99.4	99.5 99.6	99.6 99.7	99.6 99.7	99.7 99.7	99.7 99.8	99.8 99.8	99.8 99.9	99.8 99.9	99.8 99.9
IVV 300 200	81.6 81.6	95.8 95.8	96.8 96.8	97.9 97.9	99.2 99.2	99.3 99.3	99.5 99.5	99.6 99.6	99.7 99.7	99.8 99.8	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0
IVV 100 0	81.6 81.6	95.8 95.8	96.8 96.8	97.9 97.9	99.2 99.2	99.3 99.3	99.5 99.5	99.6 99.6	99.7 99.7	99.8 99.8	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 1962

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	49.7 62.2	56.9 71.5	57.3 72.0	57.8 72.7	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0	58.0 73.0
IVV 18000 16000	62.3 62.8	71.7 72.2	72.2 72.7	72.9 73.5	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7	73.2 73.7
IVV 14000 12000	64.3 65.9	74.7 76.9	74.5 77.4	75.2 78.3	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5	75.5 78.5
IVV 10000 9000	68.7 68.8	81.7 81.3	81.8 82.1	81.8 83.1	82.1 83.5	82.1 83.5	82.1 83.6	82.1 83.6	82.1 83.6	82.1 83.6	82.1 83.6	82.1 83.6	82.1 83.6	82.1 83.6	82.1 83.6	82.1 83.6
IVV 8000 7000	71.6 71.7	83.5 85.3	84.4 86.3	85.5 87.3	85.9 87.7	85.9 87.7	86.0 87.9	86.0 87.9	86.0 87.9	86.0 87.9	86.0 87.9	86.0 87.9	86.0 87.9	86.0 87.9	86.0 87.9	86.0 87.9
IVV 6000 5000	72.3 73.3	86.4 88.5	87.3 89.6	88.6 90.9	89.0 91.4	89.0 91.5	89.2 91.7	89.2 91.7	89.2 91.7	89.2 91.7	89.2 91.7	89.2 91.7	89.2 91.7	89.2 91.7	89.2 91.7	89.2 91.7
IVV 4500 4000	73.6 74.3	89.1 90.2	90.3 91.4	91.6 92.8	92.1 93.3	92.2 93.4	92.3 93.6	92.3 93.6	92.3 93.6	92.3 93.6	92.3 93.6	92.3 93.6	92.3 93.6	92.3 93.6	92.3 93.6	92.3 93.6
IVV 3500 3000	75.2 75.6	91.7 92.8	92.9 94.0	94.4 95.6	94.9 96.1	95.0 96.2	95.2 96.4	95.3 96.5	95.3 96.5	95.3 96.5	95.3 96.5	95.3 96.5	95.3 96.5	95.3 96.5	95.3 96.5	95.3 96.5
IVV 2500 2000	75.8 76.0	93.4 93.9	94.7 95.4	96.2 96.9	96.8 97.5	96.9 97.6	97.0 97.8	97.2 97.9	97.2 97.9	97.2 97.9	97.2 97.9	97.2 97.9	97.2 97.9	97.2 97.9	97.2 97.9	97.2 97.9
IVV 1800 1500	76.1 76.2	94.0 94.2	95.6 95.8	97.1 97.4	97.8 98.2	97.9 98.3	98.1 98.5	98.3 98.7	98.3 98.7	98.3 98.7	98.3 98.7	98.3 98.7	98.3 98.7	98.3 98.7	98.3 98.7	98.3 98.7
IVV 1200 1000	76.2 76.3	94.2 94.3	95.8 95.9	97.5 97.6	98.4 98.5	98.6 98.7	98.8 98.9	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.1	98.9 99.1
IVV 900 800	76.3 76.4	94.3 94.5	95.9 96.1	97.6 97.8	98.6 98.8	98.8 99.0	99.0 99.2	99.1 99.4	99.1 99.4	99.1 99.4	99.1 99.4	99.1 99.4	99.1 99.4	99.1 99.5	99.1 99.5	99.2 99.5
IVV 700 600	76.4 76.4	94.5 94.5	96.1 96.1	97.9 97.9	98.9 98.9	99.1 99.1	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.6	99.5 99.6	99.6 99.6
IVV 500 400	76.4 76.4	94.6 94.6	96.2 96.2	97.9 98.0	98.9 99.0	99.2 99.2	99.4 99.4	99.6 99.6	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.8 99.8	99.8 99.8	99.8 99.9
IVV 300 200	76.4 76.4	94.7 94.7	96.3 96.3	98.1 98.1	99.1 99.1	99.3 99.3	99.5 99.5	99.7 99.7	99.7 99.7	99.8 99.8	99.8 99.8	99.8 99.8	99.8 99.8	99.9 99.9	99.9 100.0	100.0 100.0
IVV 100 0	76.4 76.4	94.7 94.7	96.3 96.3	98.1 98.1	99.1 99.1	99.3 99.3	99.5 99.5	99.7 99.7	99.7 99.7	99.8 99.8	99.8 99.8	99.8 99.8	99.8 99.8	99.9 99.9	99.9 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 1959

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 29801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

43-45, 47, 49-66

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	49.6 56.1	67.8 75.8	69.4 77.6	69.9 78.3	70.5 79.1	70.5 79.1	70.6 79.2	70.6 79.2	70.6 79.2	70.6 79.2	70.6 79.2	70.6 79.2	70.6 79.2	70.6 79.2	70.6 79.2	70.6 79.2
IVV 18000 16000	56.4 56.7	76.3 76.7	78.1 78.5	78.9 79.2	79.6 79.9	79.6 80.0	79.7 80.0	79.7 80.0	79.7 80.0	79.7 80.0	79.7 80.0	79.7 80.0	79.7 80.0	79.7 80.0	79.7 80.1	79.7 80.1
IVV 14000 12000	57.7 59.6	78.5 80.3	79.8 82.4	80.5 83.1	81.3 83.9	81.3 83.9	81.4 84.0	81.4 84.0	81.4 84.0	81.4 84.0	81.4 84.0	81.4 84.0	81.4 84.0	81.4 84.0	81.5 84.1	81.5 84.1
IVV 10000 9000	60.7 60.7	82.5 83.7	84.8 86.0	85.5 86.8	86.4 87.6	86.5 87.7	86.6 87.8	86.6 87.8	86.6 87.8	86.6 87.8	86.6 87.8	86.6 87.8	86.6 87.8	86.6 87.8	86.6 87.8	86.6 87.8
IVV 8000 7000	61.5 62.2	85.4 87.3	87.7 89.4	88.6 90.3	89.5 91.2	89.5 91.2	89.6 91.4	89.6 91.4	89.6 91.4	89.7 91.5	89.7 91.5	89.7 91.5	89.7 91.5	89.7 91.5	89.7 91.5	89.7 91.5
IVV 6000 5000	62.8 63.4	88.3 89.8	90.7 92.2	91.6 93.2	92.4 94.0	92.5 94.1	92.6 94.3	92.6 94.3	92.6 94.3	92.7 94.4	92.7 94.4	92.7 94.4	92.7 94.4	92.7 94.4	92.8 94.4	92.8 94.4
IVV 4500 4000	63.6 64.1	90.3 91.4	92.7 93.9	93.7 94.9	94.6 95.9	94.7 96.0	94.8 96.1	94.8 96.1	94.8 96.1	94.9 96.2	94.9 96.2	94.9 96.2	94.9 96.2	94.9 96.2	95.0 96.3	95.0 96.3
IVV 3500 3000	64.4 64.5	92.7 92.2	94.5 94.8	95.5 96.0	96.6 97.1	96.7 97.2	96.9 97.3	96.9 97.3	96.9 97.3	97.0 97.4	97.0 97.4	97.0 97.4	97.0 97.4	97.0 97.4	97.0 97.5	97.0 97.5
IVV 2500 2000	64.5 64.6	92.6 93.0	95.1 95.7	96.4 96.9	97.5 98.1	97.7 98.2	97.8 98.4	97.8 98.4	97.8 98.4	97.9 98.5	97.9 98.5	97.9 98.5	97.9 98.5	97.9 98.5	98.0 98.6	98.0 98.6
IVV 1800 1500	64.6 64.9	93.1 93.4	95.8 96.2	97.0 97.4	98.3 98.7	98.4 98.8	98.6 99.0	98.6 99.0	98.6 99.0	98.7 99.1	98.7 99.1	98.7 99.1	98.7 99.1	98.7 99.1	98.8 99.2	98.8 99.2
IVV 1200 1000	64.9 65.7	93.5 93.5	96.3 96.3	97.7 97.7	98.9 99.0	99.1 99.1	99.2 99.3	99.2 99.3	99.2 99.3	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.5	99.4 99.5
IVV 900 800	65.1 65.7	93.6 93.6	96.4 96.4	97.8 97.8	99.0 99.0	99.2 99.2	99.3 99.3	99.3 99.3	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5
IVV 700 600	65.7 65.7	93.6 93.6	96.4 96.4	97.8 97.8	99.0 99.1	99.2 99.2	99.4 99.4	99.4 99.5	99.4 99.5	99.5 99.7	99.5 99.7	99.5 99.7	99.5 99.7	99.5 99.7	99.6 99.7	99.6 99.7
IVV 500 400	65.7 65.7	93.6 93.7	96.4 96.5	97.8 97.9	99.1 99.2	99.2 99.3	99.5 99.6	99.6 99.7	99.6 99.7	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9
IVV 300 200	65.7 65.7	93.7 93.7	96.5 96.5	97.9 97.9	99.2 99.2	99.3 99.4	99.6 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 100.0	99.9 100.0
IVV 100 0	65.7 65.7	93.7 93.7	96.5 96.5	97.9 97.9	99.2 99.2	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 1958

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-3200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	37.4	65.7	71.0	71.4	72.9	73.1	73.5	73.7	73.7	73.8	73.8	73.8	74.0	74.0	74.0	74.0
IV 18000	40.9	71.4	75.9	77.5	79.0	79.2	79.6	79.8	79.8	79.9	79.9	79.9	80.1	80.1	80.1	80.1
IV 16000	41.2	71.9	76.3	77.9	79.5	79.7	80.1	80.3	80.3	80.4	80.4	80.4	80.6	80.6	80.6	80.6
IV 14000	42.1	73.1	77.5	79.1	80.6	80.8	81.3	81.5	81.5	81.6	81.6	81.6	81.8	81.8	81.8	81.8
IV 12000	43.9	76.7	81.4	82.9	84.5	84.7	85.1	85.3	85.3	85.4	85.4	85.4	85.6	85.6	85.6	85.6
IV 10000	45.5	79.2	83.9	85.5	87.0	87.4	87.8	88.0	88.0	88.1	88.1	88.1	88.3	88.3	88.3	88.3
IV 9000	45.9	80.1	84.9	86.5	88.0	88.3	88.7	88.9	88.9	89.0	89.0	89.0	89.2	89.2	89.2	89.2
IV 8000	46.5	81.5	86.4	88.0	89.6	89.9	90.3	90.5	90.5	90.6	90.6	90.6	90.8	90.8	90.8	90.8
IV 7000	46.6	82.1	87.2	88.8	90.3	90.6	91.0	91.2	91.2	91.3	91.3	91.3	91.6	91.6	91.6	91.6
IV 6000	46.7	82.7	87.8	89.4	90.9	91.2	91.7	91.9	91.9	92.0	92.0	92.0	92.2	92.2	92.2	92.2
IV 5000	47.2	84.0	89.3	90.9	92.4	92.7	93.1	93.3	93.3	93.4	93.4	93.4	93.7	93.7	93.7	93.7
IV 4500	47.3	84.2	89.5	91.1	92.7	93.0	93.4	93.7	93.7	93.8	93.8	93.8	94.0	94.0	94.0	94.0
IV 4000	47.6	84.7	90.1	91.7	93.3	93.7	94.1	94.3	94.3	94.4	94.4	94.4	94.6	94.6	94.6	94.6
IV 3500	47.7	85.6	90.9	92.5	94.2	94.5	94.9	95.1	95.1	95.2	95.2	95.2	95.4	95.4	95.4	95.4
IV 3000	47.9	86.3	91.7	93.3	95.0	95.3	95.7	95.9	95.9	96.0	96.0	96.0	96.2	96.2	96.2	96.2
IV 2500	48.1	86.9	92.5	94.1	95.9	96.2	96.6	96.8	96.8	96.9	96.9	96.9	97.1	97.1	97.1	97.1
IV 2000	48.2	87.6	93.1	94.8	96.6	97.0	97.4	97.6	97.6	97.7	97.7	97.7	97.9	97.9	97.9	97.9
IV 1800	48.2	87.7	93.2	94.9	96.7	97.1	97.5	97.7	97.7	97.8	97.8	97.8	98.0	98.0	98.0	98.0
IV 1500	48.2	88.1	93.6	95.3	97.1	97.5	97.9	98.1	98.1	98.2	98.2	98.2	98.4	98.4	98.4	98.4
IV 1200	48.2	88.4	94.0	95.7	97.5	97.9	98.3	98.5	98.5	98.6	98.6	98.6	98.8	98.8	98.8	98.8
IV 1000	48.2	88.6	94.2	95.9	97.7	98.1	98.5	98.7	98.8	98.9	98.9	98.9	99.1	99.1	99.1	99.1
IV 900	48.2	88.6	94.3	96.0	97.8	98.2	98.6	98.8	98.8	98.9	98.9	98.9	99.1	99.1	99.1	99.1
IV 800	48.2	88.8	94.4	96.1	98.0	98.3	98.7	98.9	99.0	99.1	99.1	99.1	99.3	99.3	99.3	99.3
IV 700	48.3	88.8	94.5	96.2	98.0	98.4	98.8	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
IV 600	48.3	88.8	94.5	96.2	98.1	98.4	98.8	99.1	99.2	99.3	99.3	99.3	99.5	99.5	99.5	99.5
IV 500	48.3	88.9	94.6	96.4	98.2	98.6	99.0	99.2	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6
IV 400	48.3	88.9	94.6	96.4	98.3	98.6	99.0	99.3	99.4	99.5	99.5	99.5	99.7	99.7	99.7	99.7
IV 300	48.3	88.9	94.6	96.5	98.3	98.7	99.1	99.3	99.4	99.5	99.5	99.5	99.7	99.7	99.7	99.7
IV 200	48.3	88.9	94.6	96.5	98.3	98.7	99.1	99.3	99.4	99.5	99.5	99.5	99.7	99.7	99.8	99.8
IV 100	48.3	88.9	94.6	96.5	98.3	98.7	99.1	99.3	99.4	99.5	99.5	99.5	99.7	99.7	99.8	99.8
IV 0	48.3	88.9	94.6	96.5	98.3	98.7	99.1	99.3	99.4	99.5	99.5	99.5	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1953

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

43-45,49-66

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	25.9 29.9	49.7 56.4	54.2 61.1	57.1 64.2	60.5 67.6	61.4 68.5	62.9 70.3	63.6 71.1	63.7 71.2	64.8 72.2	65.0 72.5	65.2 72.6	65.5 73.0	65.5 73.1	65.6 73.2	65.9 73.5
IVV 18000 16000	29.9 37.1	56.5 61.4	61.2 64.4	64.4 67.8	67.8 70.4	68.7 70.6	70.4 71.4	71.2 71.5	71.3 72.5	72.4 72.8	72.6 73.0	72.8 73.0	73.1 73.3	73.2 73.4	73.3 73.5	73.6 73.8
IVV 14000 12000	30.7 32.1	57.7 61.7	62.4 66.0	65.7 69.4	69.2 72.8	70.1 73.8	71.8 75.5	72.6 76.3	72.7 76.4	73.9 77.6	74.1 77.8	74.3 78.0	74.6 78.3	74.7 78.4	74.8 78.5	75.1 78.8
IVV 10000 9000	33.6 34.1	63.9 64.9	69.4 70.4	72.8 74.0	76.3 77.6	77.3 78.5	79.0 80.3	79.9 81.1	80.0 81.2	81.2 82.4	81.5 82.7	81.6 82.9	81.9 83.2	82.0 83.3	82.1 83.4	82.5 83.8
IVV 8000 7000	34.9 35.2	66.9 67.5	72.6 73.2	76.4 77.0	79.9 80.6	80.9 81.6	82.6 83.3	83.5 84.1	83.6 84.2	84.8 85.5	85.0 85.8	85.2 86.0	85.6 86.3	85.7 86.4	85.8 86.5	86.1 86.8
IVV 6000 5000	35.7 36.3	68.5 69.9	74.3 75.8	78.1 79.7	81.7 83.4	82.7 84.4	84.4 86.2	85.2 87.0	85.3 87.1	86.6 88.4	86.9 88.6	87.1 88.8	87.4 89.1	87.5 89.2	87.6 89.3	88.0 89.7
IVV 4500 4000	36.5 36.6	70.6 71.1	76.5 77.0	80.5 81.0	84.2 84.8	85.1 85.8	86.9 87.6	87.8 88.4	87.9 88.5	89.1 89.9	89.4 90.1	89.6 90.3	89.9 90.6	90.0 90.7	90.1 90.8	90.5 91.2
IVV 3500 3000	36.8 37.1	71.7 72.8	77.8 78.9	81.8 83.0	85.6 86.8	86.6 87.8	88.4 89.6	89.2 90.4	89.3 90.5	90.6 91.9	90.9 92.1	91.1 92.3	91.4 92.6	91.5 92.7	91.6 92.8	92.0 93.2
IVV 2500 2000	37.4 37.4	73.5 74.1	79.7 80.5	83.8 84.6	87.6 88.5	88.6 89.4	90.4 91.2	91.2 92.1	91.3 92.2	92.6 93.5	92.9 93.8	93.1 94.0	93.4 94.3	93.5 94.4	93.6 94.5	94.0 94.8
IVV 1800 1500	37.6 37.8	74.4 75.1	80.8 81.6	84.9 85.8	88.7 89.6	89.7 90.6	91.5 92.4	92.3 93.2	92.4 93.3	93.8 94.6	94.0 94.9	94.2 95.1	94.5 95.4	94.6 95.5	94.7 95.6	95.1 96.0
IVV 1200 1000	38.1 38.1	76.1 76.5	82.7 83.2	86.9 87.4	90.7 91.3	91.8 92.3	93.6 94.3	94.5 95.1	94.6 95.2	95.9 96.6	96.2 96.8	96.4 97.0	96.7 97.3	96.8 97.4	96.9 97.5	97.2 97.9
IVV 900 800	38.1 38.1	76.6 76.7	83.4 83.5	87.6 87.7	91.4 91.6	92.5 92.6	94.4 94.6	95.3 95.5	95.4 95.6	96.7 97.0	97.0 97.2	97.2 97.4	97.5 97.7	97.6 97.8	97.7 98.0	98.1 98.3
IVV 700 600	38.1 38.1	76.8 76.8	83.6 83.7	87.8 87.9	91.8 91.9	92.8 92.9	94.8 94.9	95.6 95.7	95.8 95.9	97.1 97.2	97.4 97.5	97.6 97.7	97.9 98.0	98.0 98.1	98.1 98.2	98.5 98.6
IVV 500 400	38.1 38.1	76.8 76.9	83.7 83.7	87.9 87.9	91.9 91.9	92.9 92.9	94.9 95.0	95.8 95.9	96.0 96.0	97.3 97.4	97.6 97.6	97.8 97.8	98.1 98.2	98.2 98.3	98.3 98.4	98.7 98.7
IVV 300 200	38.1 38.1	76.9 76.9	83.7 83.7	88.0 88.0	92.0 92.0	93.0 93.0	95.0 95.0	95.9 95.9	96.1 96.1	97.4 97.5	97.7 97.7	97.9 98.0	98.2 98.3	98.3 98.4	98.4 98.6	98.8 99.2
IVV 100 0	38.1 38.1	76.9 76.9	83.7 83.7	88.0 88.0	92.0 92.0	93.0 93.0	95.1 95.1	96.0 96.0	96.1 96.1	97.5 97.5	97.8 97.8	98.0 98.0	98.4 98.4	98.5 98.5	98.7 98.8	99.4 100.0

TOTAL NUMBER OF OBSERVATIONS 1952



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEPART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	39.5	46.1	48.5	50.8	52.0	52.7	53.6	53.8	53.8	54.1	54.1	54.2	54.3	54.3	54.5	54.8
IV 18000	37.4	55.7	58.2	60.9	62.2	63.2	64.0	64.1	64.2	64.5	64.6	64.7	64.8	64.8	65.0	65.3
IV 16000	37.5	55.8	58.5	61.1	62.5	63.2	64.2	64.4	64.5	64.8	64.9	64.9	65.1	65.1	65.2	65.6
IV 14000	37.6	56.1	58.7	61.4	62.7	63.5	64.5	64.6	64.7	65.0	65.1	65.2	65.4	65.4	65.5	65.8
IV 12000	39.1	58.3	61.0	63.8	65.1	65.9	66.8	67.0	67.1	67.4	67.5	67.6	67.7	67.7	67.9	68.2
IV 10000	41.2	61.7	64.9	67.9	69.2	70.0	71.0	71.2	71.3	71.6	71.7	71.8	71.9	71.9	72.1	72.4
IV 9000	43.4	65.2	68.6	71.8	73.2	74.0	75.0	75.1	75.2	75.6	75.7	75.8	75.9	75.9	76.1	76.4
IV 8000	43.9	66.1	69.6	72.8	74.2	75.0	76.1	76.3	76.4	76.7	76.8	76.9	77.0	77.0	77.2	77.5
IV 7000	45.1	68.2	71.9	75.1	76.6	77.4	78.5	78.7	78.8	79.1	79.2	79.3	79.4	79.4	79.6	79.9
IV 6000	45.9	69.8	73.6	76.9	78.4	79.2	80.3	80.5	80.6	80.9	81.1	81.1	81.3	81.3	81.4	81.8
IV 5000	46.3	70.8	74.6	78.1	79.7	80.5	81.6	81.8	81.9	82.2	82.4	82.4	82.6	82.6	82.7	83.0
IV 4500	47.3	72.2	76.3	79.9	81.6	82.4	83.6	83.8	83.9	84.2	84.4	84.4	84.6	84.6	84.7	85.0
IV 4000	47.5	72.7	76.9	80.5	82.2	83.0	84.2	84.4	84.5	84.8	85.0	85.0	85.2	85.2	85.3	85.6
IV 3500	47.9	73.6	77.9	81.5	83.2	84.0	85.2	85.4	85.5	85.8	86.0	86.0	86.2	86.2	86.3	86.6
IV 3000	48.6	75.0	79.2	83.0	84.7	85.5	86.7	86.9	87.0	87.3	87.5	87.5	87.7	87.7	87.9	88.2
IV 2500	49.1	75.8	80.1	83.8	85.5	86.4	87.6	87.8	87.9	88.2	88.4	88.4	88.6	88.6	88.8	89.1
IV 2000	49.5	76.3	80.6	84.5	86.3	87.1	88.4	88.7	88.8	89.1	89.2	89.3	89.5	89.5	89.6	90.0
IV 1800	49.9	77.5	81.9	85.8	87.6	88.4	89.7	90.0	90.1	90.4	90.6	90.6	90.8	90.8	91.0	91.3
IV 1500	50.1	77.8	82.2	86.1	88.0	88.8	90.2	90.4	90.5	90.8	91.0	91.0	91.2	91.2	91.4	91.7
IV 1200	50.8	79.5	83.9	88.0	90.1	90.9	92.2	92.5	92.6	92.9	93.0	93.1	93.3	93.3	93.4	93.7
IV 1000	51.6	80.9	85.3	89.6	91.8	92.6	94.0	94.2	94.3	94.6	94.8	94.8	95.0	95.0	95.2	95.5
IV 900	52.1	82.1	86.5	90.9	93.1	94.0	95.4	95.6	95.7	96.1	96.2	96.3	96.5	96.5	96.6	96.9
IV 800	52.1	82.4	86.9	91.3	93.6	94.4	95.9	96.2	96.3	96.6	96.7	96.8	97.0	97.0	97.1	97.4
IV 700	52.4	82.8	87.4	91.9	94.3	95.1	96.6	96.9	97.0	97.3	97.5	97.5	97.7	97.7	97.9	98.2
IV 600	52.4	82.9	87.6	92.2	94.5	95.4	96.9	97.2	97.3	97.7	97.9	97.9	98.2	98.2	98.4	98.7
IV 500	52.4	83.1	87.8	92.6	94.9	95.8	97.3	97.6	97.7	98.2	98.3	98.4	98.6	98.6	98.8	99.1
IV 400	52.4	83.1	87.9	92.7	95.1	96.0	97.5	97.8	97.9	98.3	98.5	98.5	98.7	98.7	98.9	99.2
IV 300	52.4	83.2	88.0	92.7	95.2	96.1	97.7	98.1	98.2	98.6	98.7	98.8	99.0	99.0	99.2	99.6
IV 200	52.4	83.2	88.0	92.7	95.2	96.1	97.8	98.1	98.2	98.6	98.8	98.8	98.9	99.2	99.2	99.8
IV 100	52.4	83.2	88.0	92.7	95.2	96.1	97.8	98.1	98.2	98.6	98.9	99.0	99.2	99.3	99.5	99.9
IV 0	52.4	83.2	88.0	92.7	95.2	96.1	97.8	98.1	98.2	98.6	98.9	99.0	99.2	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 1951



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

43-45, 49-66

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0960-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	34.9 43.7	44.5 54.8	45.5 55.9	46.2 56.6	46.3 56.8	46.3 56.8	46.3 56.8	46.3 56.8	46.3 56.8	46.3 56.8	46.3 56.8	46.3 56.8	46.3 56.8	46.3 56.8	46.3 56.8	46.4 56.8
IVV 18000 16000	43.1 43.5	55.1 55.7	56.2 56.7	56.9 57.5	57.1 57.7	57.1 57.7	57.1 57.7	57.1 57.7	57.1 57.7	57.1 57.7	57.1 57.7	57.1 57.7	57.1 57.7	57.1 57.7	57.1 57.7	57.2 57.7
IVV 14000 12000	44.7 47.3	57.5 60.8	58.6 62.7	59.4 62.8	59.6 63.7	59.6 63.7	59.6 63.0	59.6 63.0	59.6 63.0	59.6 63.0	59.6 63.0	59.6 63.0	59.6 63.0	59.6 63.0	59.6 63.0	59.6 63.0
IVV 10000 9000	49.4 52.2	64.7 65.3	65.7 66.6	66.2 67.6	66.3 67.8	66.3 67.8	66.3 67.8	66.3 67.8	66.3 67.8	66.3 67.8	66.3 67.8	66.3 67.8	66.3 67.8	66.3 67.8	66.3 67.8	66.4 67.8
IVV 8000 7000	51.6 52.8	67.3 69.1	68.6 70.4	69.6 71.5	69.9 71.8	69.9 71.8	69.9 71.8	69.9 71.8	69.9 71.8	69.9 71.8	69.9 71.8	69.9 71.8	69.9 71.8	69.9 71.8	69.9 71.8	70.0 71.8
IVV 6000 5000	53.3 54.1	69.9 71.1	71.2 72.5	72.3 73.7	72.6 74.0	72.6 74.0	72.6 74.0	72.6 74.0	72.6 74.0	72.6 74.0	72.6 74.0	72.6 74.0	72.6 74.0	72.6 74.0	72.6 74.0	72.7 74.1
IVV 4500 4000	54.8 56.2	72.2 74.2	73.6 75.6	74.7 76.7	75.0 77.0	75.0 77.0	75.0 77.0	75.0 77.0	75.0 77.0	75.0 77.0	75.0 77.0	75.0 77.0	75.0 77.0	75.0 77.0	75.0 77.0	75.1 77.1
IVV 3500 3000	58.2 62.5	76.8 81.8	78.2 83.4	79.3 84.8	79.7 85.1	79.7 85.1	79.8 85.2	79.8 85.2	79.8 85.2	79.8 85.2	79.8 85.2	79.8 85.2	79.8 85.2	79.8 85.2	79.8 85.2	79.8 85.3
IVV 2500 2000	64.5 67.1	84.8 88.4	86.6 90.2	88.0 92.0	88.4 92.4	88.4 92.4	88.5 92.5	88.5 92.5	88.5 92.5	88.5 92.5	88.5 92.5	88.5 92.5	88.5 92.5	88.5 92.5	88.5 92.5	88.5 92.6
IVV 1800 1500	67.7 69.3	89.2 92.2	91.1 94.2	93.0 96.2	93.4 96.6	93.4 96.6	93.5 96.7	93.5 96.7	93.5 96.7	93.5 96.7	93.5 96.7	93.5 96.7	93.5 96.7	93.5 96.7	93.5 96.7	93.6 96.8
IVV 1200 1000	69.8 70.1	93.2 93.9	95.2 95.9	97.4 98.1	97.8 98.6	97.8 98.6	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.9
IVV 900 800	70.2 70.2	94.1 94.2	96.1 96.2	98.3 98.5	99.0 99.2	99.0 99.2	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.3 99.5
IVV 700 600	70.2 70.2	94.3 94.3	96.4 96.4	98.6 98.6	99.4 99.4	99.4 99.4	99.6 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.8 99.8
IVV 500 400	70.2 70.2	94.3 94.4	96.4 96.4	98.6 98.7	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.8 99.8
IVV 300 200	70.2 70.2	94.4 94.4	96.4 96.4	98.7 98.7	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.9 100.0
IVV 100 0	70.2 70.2	94.4 94.4	96.4 96.4	98.7 98.7	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 1951

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	32.9	40.2	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
IV 20000	44.2	52.7	53.3	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IV 18000	44.4	52.8	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
IV 16000	44.7	53.3	53.9	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 14000	46.1	54.8	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 12000	48.1	57.3	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
IV 10000	50.7	60.5	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
IV 9000	51.3	61.3	62.1	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 8000	52.4	62.9	63.7	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
IV 7000	52.9	64.1	64.9	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
IV 6000	53.3	64.5	65.2	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IV 5000	56.4	68.7	69.7	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
IV 4500	58.2	70.9	71.9	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
IV 4000	63.7	78.2	79.1	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 3500	66.4	82.4	83.6	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	84.4	84.4
IV 3000	71.3	88.3	89.7	90.3	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.7	90.7	90.7
IV 2500	73.8	92.1	93.6	94.3	94.5	94.6	94.6	94.6	94.6	94.7	94.7	94.7	94.8	94.8	94.8	94.8
IV 2000	75.5	94.4	96.1	96.9	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6
IV 1800	75.6	94.8	96.5	97.3	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1
IV 1500	76.1	95.5	97.2	98.1	98.5	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
IV 1200	76.1	95.8	97.4	98.3	98.8	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2
IV 1000	76.1	95.8	97.5	98.4	98.9	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.3
IV 900	76.1	95.8	97.5	98.5	98.9	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
IV 800	76.2	96.2	97.9	98.8	99.3	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.8
IV 700	76.2	96.1	98.0	98.9	99.3	99.4	99.5	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8
IV 600	76.2	96.1	98.0	98.9	99.3	99.4	99.5	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9
IV 500	76.2	96.1	98.0	98.9	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9
IV 400	76.2	96.1	98.0	98.9	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	100.0	100.0	100.0	100.0
IV 300	76.2	96.1	98.0	98.9	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	100.0	100.0	100.0	100.0
IV 200	76.2	96.1	98.0	98.9	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	100.0	100.0	100.0	100.0
IV 100	76.2	96.1	98.0	98.9	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	100.0	100.0	100.0	100.0
IV 0	76.2	96.1	98.0	98.9	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1953

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	39.5	46.4	46.7	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 20000	36.1	65.2	65.5	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IV 18000	56.3	65.2	65.7	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
IV 16000	57.1	66.1	66.6	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IV 14000	58.6	67.8	68.3	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 12000	62.2	72.5	72.5	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
IV 10000	63.9	74.5	75.2	75.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IV 9000	64.5	75.6	76.3	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
IV 8000	64.9	76.5	77.3	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
IV 7000	65.7	77.7	78.5	79.1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
IV 6000	66.7	79.1	79.9	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 5000	69.7	82.7	83.6	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
IV 4500	70.6	84.0	84.8	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 4000	73.3	88.2	89.2	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV 3500	75.1	90.3	91.3	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 3000	77.0	93.4	94.5	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.8
IV 2500	78.2	95.1	96.3	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6
IV 2000	78.5	95.7	97.1	98.1	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1800	78.5	95.7	97.2	98.2	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1500	79.0	96.3	97.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
IV 1200	79.0	96.4	97.8	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
IV 1000	79.0	96.5	97.9	98.9	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 900	79.0	96.5	97.9	98.9	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 800	79.1	96.5	98.0	98.9	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 700	79.1	96.6	98.0	99.0	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
IV 600	79.1	96.6	98.0	99.0	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
IV 500	79.1	96.6	98.1	99.0	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	79.1	96.6	98.1	99.0	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 300	79.1	96.6	98.1	99.0	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 200	79.1	96.6	98.1	99.0	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 100	79.1	96.6	98.1	99.0	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 0	79.1	96.6	98.1	99.0	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1952

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	45.5 59.5	53.3 71.5	54.9 73.0	55.2 73.6	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7	55.3 73.7
IVV 18000 16000	59.8 67.2	71.7 72.1	73.2 73.6	73.8 74.2	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3	73.9 74.3
IVV 14000 12000	61.8 65.7	74.3 79.2	75.9 81.7	76.5 81.3	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5	76.7 81.5
IVV 10000 9000	67.4 68.7	82.2 83.3	83.8 84.9	84.5 85.6	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9	84.8 85.9
IVV 8000 7000	69.4 69.9	85.5 86.5	87.3 88.2	88.0 88.9	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2	88.2 89.2
IVV 6000 5000	71.6 71.6	87.6 89.3	89.6 91.4	90.3 92.2	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6	90.6 92.6
IVV 4500 4000	72.7 72.8	90.3 92.1	92.4 94.3	93.1 95.0	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5	93.6 95.5
IVV 3500 3000	73.4 74.1	93.1 94.3	95.3 96.6	96.1 97.3	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9	96.6 97.9
IVV 2500 2000	74.4 74.7	94.7 95.3	97.0 97.7	97.7 98.5	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0	98.3 99.0
IVV 1800 1500	74.7 74.7	95.4 95.5	97.8 98.0	98.6 98.7	99.1 99.3	99.1 99.3	99.1 99.3	99.1 99.3	99.1 99.3	99.1 99.3	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4
IVV 1200 1000	74.8 74.8	95.6 95.7	98.1 98.2	98.9 99.0	99.4 99.5	99.4 99.5	99.4 99.5	99.4 99.5	99.4 99.5	99.4 99.5	99.5 99.6	99.5 99.6	99.5 99.6	99.5 99.6	99.5 99.6	99.5 99.6
IVV 900 800	74.8 74.8	95.8 95.8	98.3 98.3	99.0 99.1	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.7 99.8	99.7 99.8	99.7 99.8	99.7 99.8	99.7 99.8	99.7 99.8
IVV 700 600	74.8 74.8	95.8 95.9	98.3 98.4	99.1 99.2	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.8	99.7 99.8	99.7 99.8	99.8 99.8	99.8 99.8	99.8 99.8	99.8 99.8	99.8 99.8	99.8 99.8
IVV 500 400	74.8 74.8	95.9 95.9	98.4 98.4	99.3 99.3	99.8 99.8	99.8 99.8	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0
IVV 300 200	74.8 74.8	95.9 95.9	98.4 98.4	99.3 99.3	99.8 99.8	99.8 99.8	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0
IVV 100 0	74.8 74.8	95.9 95.9	98.4 98.4	99.3 99.3	99.8 99.8	99.8 99.8	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0

TOTAL NUMBER OF OBSERVATIONS 1953

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45, 49-66  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	47.7	67.9	72.7	71.6	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 20000	54.1	76.9	79.9	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
IVIV 18000	54.2	77.1	80.1	81.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
16000	54.3	77.3	80.3	81.5	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IVIV 14000	55.2	78.5	81.6	82.7	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
12000	57.7	82.2	85.2	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IVIV 10000	59.3	84.4	87.6	88.8	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
9000	59.8	84.9	88.2	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IVIV 8000	60.2	86.2	89.7	90.9	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
7000	60.6	87.1	90.6	91.9	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
IVIV 6000	60.9	87.9	91.5	92.8	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
5000	61.6	89.7	93.4	94.7	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IVIV 4500	61.6	89.9	93.7	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
4000	62.2	91.5	94.9	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IVIV 3500	62.3	91.2	95.2	96.5	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
3000	62.7	92.1	96.2	97.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IVIV 2500	62.7	92.4	96.5	97.8	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
2000	62.7	92.7	96.8	98.1	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IVIV 1800	62.7	92.8	96.9	98.2	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
1500	62.8	93.1	97.2	98.5	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IVIV 1200	62.8	93.1	97.3	98.6	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
1000	62.8	93.3	97.5	98.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVIV 900	62.8	93.4	97.6	99.0	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
800	62.8	93.5	97.7	99.1	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IVIV 700	62.8	93.6	97.8	99.1	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
600	62.9	93.7	97.8	99.2	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IVIV 500	62.9	93.7	97.8	99.2	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
400	62.9	93.7	97.9	99.2	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 300	62.9	93.7	97.9	99.2	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	62.9	93.7	97.9	99.2	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 100	62.9	93.7	97.9	99.2	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	62.9	93.7	97.9	99.2	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1953

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,49-66  
YEAR

AUG  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING ≥ 20000	33.4 26.3	64.8 79.5	69.0 75.1	71.0 77.2	72.2 78.5	72.5 78.8	72.9 79.2	73.1 79.4	73.1 79.4	73.3 79.6	73.4 79.7	73.4 79.7	73.6 80.0	73.6 80.0	73.7 80.1	73.8 80.1
IVV 18000 16000	36.5 36.6	71.7 70.8	75.3 75.4	77.4 77.5	78.7 78.8	79.0 79.1	79.4 79.6	79.6 79.7	79.6 79.8	79.8 80.0	79.9 80.1	79.9 80.1	80.2 80.3	80.2 80.3	80.3 80.4	80.3 80.5
IVV 14000 12000	37.4 39.1	72.2 75.4	76.8 80.2	79.0 82.4	82.3 83.7	80.6 84.0	81.0 84.4	81.2 84.6	81.2 84.6	81.4 84.9	81.5 85.0	81.5 85.0	81.8 85.3	81.8 85.3	81.9 85.4	81.9 85.4
IVV 10000 9000	39.9 40.2	77.3 78.1	82.2 83.0	84.4 85.2	85.7 86.5	86.0 86.8	86.4 87.2	86.6 87.4	86.6 87.4	86.9 87.7	87.0 87.8	87.0 87.8	87.3 88.1	87.3 88.1	87.4 88.2	87.4 88.2
IVV 8000 7000	41.8 41.2	80.1 81.0	85.3 86.2	87.4 88.4	88.8 89.8	89.1 90.1	89.5 90.6	89.7 91.1	89.7 91.3	90.0 91.4	90.1 91.7	90.1 91.8	90.4 91.8	90.4 92.0	90.5 91.5	90.5 91.6
IVV 6000 5000	41.2 41.7	81.5 82.7	86.7 88.0	89.5 90.2	90.4 91.6	90.7 92.0	91.1 92.4	91.3 92.6	91.3 92.7	91.4 93.0	91.7 93.1	91.8 93.1	91.8 93.3	92.0 93.3	92.0 93.3	92.2 93.5
IVV 4500 4000	42.1 42.2	83.3 84.2	88.6 89.4	90.9 91.8	92.3 93.2	92.6 93.5	93.1 94.0	93.3 94.5	93.3 94.2	93.6 94.5	93.7 94.6	93.7 94.6	94.0 94.9	94.0 94.9	94.1 95.0	94.1 95.0
IVV 3500 3000	42.3 42.3	84.5 84.8	89.8 90.2	92.2 92.8	93.6 94.2	94.0 94.6	94.5 95.0	94.7 95.2	94.7 95.3	94.7 95.6	95.0 95.7	95.1 95.7	95.1 95.9	95.4 95.9	95.4 96.0	95.5 96.1
IVV 2500 2000	42.4 42.4	85.3 85.6	91.0 91.4	93.6 94.2	95.0 95.6	95.4 96.0	95.9 96.4	96.1 96.6	96.1 96.7	96.4 97.0	96.5 97.1	96.5 97.1	96.8 97.3	96.8 97.3	96.9 97.4	96.9 97.5
IVV 1800 1500	42.4 42.4	85.7 85.8	91.5 91.6	94.3 94.4	95.7 95.8	96.1 96.2	96.5 96.6	96.7 96.8	96.8 96.9	97.1 97.2	97.1 97.2	97.2 97.3	97.4 97.5	97.4 97.5	97.5 97.6	97.6 97.7
IVV 1200 1000	42.7 42.7	86.2 86.4	92.0 92.2	95.0 95.2	96.4 96.7	96.8 97.1	97.3 97.6	97.5 97.8	97.6 97.8	97.9 98.3	98.0 98.4	98.0 98.4	98.3 98.6	98.3 98.6	98.4 98.7	98.5 98.8
IVV 900 800	42.7 42.7	86.4 86.4	92.2 92.3	95.3 95.3	96.8 96.8	97.2 97.2	97.7 97.8	97.9 98.0	98.1 98.1	98.4 98.5	98.5 98.5	98.5 98.5	98.7 98.8	98.7 98.8	98.8 98.9	98.9 99.0
IVV 700 600	42.7 42.7	86.4 86.5	92.3 92.3	95.4 95.4	96.9 96.9	97.3 97.3	97.8 97.9	98.0 98.1	98.1 98.5	98.5 98.7	98.6 98.7	98.6 98.7	98.9 98.9	98.9 98.9	99.0 99.0	99.1 99.1
IVV 500 400	42.7 42.8	86.5 86.5	92.4 92.4	95.5 95.6	97.0 97.1	97.5 97.5	98.1 98.1	98.3 98.4	98.4 98.5	98.8 98.9	98.9 99.0	98.9 99.0	99.2 99.3	99.2 99.3	99.3 99.4	99.4 99.5
IVV 300 200	42.8 42.8	86.6 86.6	92.5 92.5	95.6 95.6	97.1 97.1	97.6 97.6	98.2 98.2	98.5 98.5	98.5 98.5	99.3 99.3	99.3 99.3	99.3 99.3	99.4 99.4	99.4 99.4	99.5 99.5	99.6 99.6
IVV 100 0	42.8 42.8	86.6 86.6	92.5 92.5	95.6 95.6	97.1 97.1	97.6 97.6	98.2 98.2	98.5 98.5	98.5 98.5	99.1 99.1	99.2 99.2	99.2 99.2	99.5 99.5	99.5 99.5	99.7 99.7	99.9 100.0

TOTAL NUMBER OF OBSERVATIONS 2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

42-45, 49-66 YEARS

AUG MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	22.9	48.1	54.5	58.6	61.7	62.1	63.6	64.3	64.3	65.3	65.5	65.6	66.1	66.1	66.4	66.8
IV 20000	23.9	53.1	60.1	64.4	67.7	68.1	69.7	70.4	70.5	71.6	71.7	71.9	72.3	72.3	72.7	73.2
IV 18000	24.1	53.3	60.3	64.6	67.9	68.3	70.0	70.7	70.8	71.9	72.1	72.2	72.7	72.7	73.1	73.6
IV 16000	24.2	53.6	60.6	65.0	68.3	68.7	70.3	71.1	71.1	72.3	72.4	72.6	73.0	73.0	73.4	73.9
IV 14000	25.3	55.9	63.1	67.5	70.8	71.2	72.9	73.7	73.8	74.9	75.1	75.2	75.7	75.7	76.1	76.6
IV 12000	26.5	58.8	66.3	71.0	74.4	74.9	76.5	77.4	77.4	78.6	78.8	78.9	79.4	79.4	79.8	80.3
IV 10000	27.5	61.5	69.0	74.1	77.6	78.0	79.7	80.6	80.6	81.8	82.0	82.1	82.6	82.6	83.0	83.5
IV 9000	27.6	62.1	69.7	74.8	78.3	78.8	80.5	81.3	81.4	82.5	82.7	82.9	83.3	83.3	83.7	84.2
IV 8000	28.1	64.1	71.9	77.1	80.7	81.2	82.9	83.8	83.8	85.0	85.2	85.3	85.8	85.8	86.2	86.7
IV 7000	28.7	65.3	73.5	78.8	82.4	82.9	84.6	85.5	85.5	86.7	86.9	87.0	87.5	87.5	87.9	88.4
IV 6000	28.9	66.1	74.3	79.6	83.3	83.7	85.5	86.4	86.5	87.6	87.8	88.0	88.4	88.4	88.8	89.3
IV 5000	29.5	67.3	75.7	80.9	84.7	85.1	86.9	87.9	87.9	89.1	89.3	89.4	89.9	89.9	90.3	90.8
IV 4500	29.6	67.7	76.1	81.3	85.1	85.5	87.3	88.3	88.3	89.5	89.7	89.8	90.3	90.3	90.7	91.2
IV 4000	29.9	68.4	76.9	82.1	85.9	86.4	88.2	89.2	89.2	90.4	90.6	90.7	91.2	91.2	91.6	92.1
IV 3500	30.1	69.0	77.7	83.2	87.1	87.6	89.4	90.3	90.4	91.5	91.7	91.9	92.3	92.3	92.7	93.2
IV 3000	30.1	69.5	78.4	83.9	87.8	88.3	90.1	91.1	91.1	92.3	92.5	92.6	93.1	93.1	93.5	94.0
IV 2500	30.1	69.8	78.6	84.2	88.1	88.7	90.6	91.5	91.6	92.7	93.0	93.1	93.6	93.6	94.0	94.5
IV 2000	30.1	70.1	79.0	84.6	88.6	89.1	91.0	92.0	92.1	93.2	93.5	93.6	94.1	94.1	94.5	95.0
IV 1800	30.1	70.2	79.1	84.7	88.7	89.2	91.1	92.1	92.2	93.3	93.6	93.7	94.2	94.2	94.6	95.1
IV 1500	30.2	70.6	79.6	85.2	89.2	89.9	91.8	92.8	92.8	94.0	94.2	94.4	94.8	94.8	95.2	95.7
IV 1200	30.3	70.7	79.9	85.6	89.7	90.3	92.3	93.3	93.3	94.5	94.7	94.9	95.4	95.4	95.8	96.3
IV 1000	30.3	70.7	79.9	85.6	89.7	90.3	92.3	93.3	93.3	94.5	94.7	94.9	95.4	95.4	95.8	96.3
IV 900	30.3	70.9	80.1	85.8	89.9	90.5	92.5	93.5	93.5	94.7	94.9	95.1	95.6	95.6	96.0	96.5
IV 800	30.3	70.9	80.2	86.0	90.1	90.7	92.7	93.7	93.7	94.9	95.1	95.3	95.8	95.8	96.2	96.7
IV 700	30.3	70.9	80.3	86.1	90.3	90.9	92.8	93.9	93.9	95.1	95.3	95.5	96.0	96.0	96.4	96.9
IV 600	30.3	70.9	80.3	86.2	90.4	91.0	92.0	94.0	94.1	95.2	95.5	95.6	96.1	96.1	96.5	97.0
IV 500	30.3	70.9	80.3	86.2	90.4	91.0	93.2	94.3	94.3	95.5	95.7	95.9	96.4	96.4	96.8	97.3
IV 400	30.3	70.9	80.3	86.2	90.4	91.0	93.3	94.4	94.5	95.6	95.9	96.0	96.6	96.6	97.0	97.5
IV 300	30.3	70.9	80.3	86.2	90.5	91.2	93.5	94.7	94.7	96.0	96.2	96.4	96.9	96.9	97.3	97.8
IV 200	30.3	70.9	80.3	86.2	90.5	91.2	93.6	94.8	94.8	96.1	96.4	96.6	97.2	97.2	97.7	98.4
IV 100	30.3	71.0	80.4	86.3	90.6	91.3	93.7	94.9	94.9	96.3	96.7	96.8	97.5	97.5	98.2	99.0
IV 0	30.3	71.0	80.4	86.3	90.6	91.3	93.7	94.9	94.9	96.3	96.7	96.9	97.5	97.5	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 1999



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

42-45, 49-66

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	24.7	47.3	50.6	53.3	55.5	56.2	57.1	57.6	57.6	57.8	57.9	57.9	58.0	58.2	58.3	58.5
IV 20000	28.2	53.8	57.5	60.7	63.1	63.7	64.7	65.2	65.2	65.5	65.5	65.5	65.7	65.9	66.0	66.3
IV 18000	28.2	54.1	57.7	61.0	63.4	64.1	65.1	65.6	65.7	65.9	66.0	66.0	66.1	66.3	66.5	66.7
IV 16000	28.4	54.4	58.0	61.4	63.7	64.4	65.4	65.9	66.0	66.3	66.3	66.3	66.5	66.7	66.8	67.1
IV 14000	29.6	56.2	60.1	63.5	65.8	66.5	67.5	68.0	68.1	68.4	68.4	68.4	68.6	68.8	68.9	69.2
IV 12000	31.5	59.5	63.5	67.1	69.8	70.6	71.6	72.1	72.2	72.5	72.6	72.6	72.7	72.9	73.1	73.3
IV 10000	33.4	62.5	66.7	70.3	73.4	74.2	75.2	75.8	75.9	76.2	76.3	76.3	76.4	76.6	76.8	77.0
IV 9000	33.8	63.5	67.8	71.6	74.8	75.6	76.6	77.2	77.3	77.6	77.7	77.7	77.8	78.0	78.2	78.4
IV 8000	34.7	65.5	69.9	73.8	77.1	77.9	78.9	79.5	79.6	79.9	79.9	79.9	80.1	80.3	80.5	80.7
IV 7000	35.4	66.5	71.2	75.1	78.4	79.2	80.2	80.8	80.9	81.2	81.3	81.3	81.4	81.6	81.8	82.1
IV 6000	36.1	67.4	72.2	76.2	79.7	80.5	81.5	82.1	82.2	82.6	82.6	82.6	82.8	83.0	83.2	83.4
IV 5000	36.5	68.8	73.8	77.8	81.3	82.1	83.2	83.8	83.9	84.3	84.3	84.3	84.5	84.7	84.9	85.1
IV 4500	36.7	69.3	74.3	78.4	81.9	82.7	83.8	84.4	84.5	84.9	84.9	84.9	85.1	85.3	85.5	85.7
IV 4000	36.9	70.2	75.3	79.5	83.0	83.8	84.9	85.6	85.7	86.0	86.1	86.1	86.2	86.4	86.6	86.9
IV 3500	37.7	70.6	75.7	80.0	83.5	84.4	85.5	86.1	86.2	86.6	86.6	86.6	86.8	87.0	87.2	87.4
IV 3000	37.1	71.1	76.4	80.8	84.4	85.3	86.4	87.1	87.2	87.5	87.6	87.6	87.7	87.9	88.1	88.4
IV 2500	37.3	71.8	77.1	81.6	85.3	86.2	87.4	88.1	88.1	88.5	88.6	88.6	88.7	88.9	89.1	89.4
IV 2000	37.7	73.0	78.3	83.0	86.7	87.6	88.8	89.5	89.6	89.9	90.0	90.0	90.2	90.4	90.6	90.8
IV 1800	37.8	73.3	78.6	83.3	87.1	88.0	89.3	90.0	90.1	90.4	90.5	90.5	90.7	90.9	91.1	91.3
IV 1500	38.1	73.9	79.4	84.3	88.3	89.1	90.5	91.2	91.3	91.7	91.8	91.8	91.9	92.1	92.3	92.6
IV 1200	38.3	74.7	80.4	85.2	89.3	90.2	91.6	92.3	92.4	92.8	92.9	92.9	93.0	93.2	93.4	93.7
IV 1000	38.5	75.4	81.4	86.4	90.6	91.5	93.0	93.7	93.8	94.2	94.4	94.4	94.5	94.7	94.9	95.2
IV 900	38.5	75.7	81.8	86.8	91.1	92.0	93.4	94.2	94.3	94.7	94.8	94.8	95.0	95.2	95.4	95.6
IV 800	38.5	75.9	82.0	87.1	91.4	92.3	93.8	94.5	94.6	95.1	95.3	95.3	95.4	95.6	95.8	96.1
IV 700	38.5	76.0	82.2	87.2	91.6	92.6	94.0	94.8	94.9	95.4	95.6	95.6	95.8	96.0	96.2	96.4
IV 600	38.5	76.0	82.3	87.3	91.8	92.8	94.2	95.1	95.2	95.7	95.9	95.9	96.1	96.3	96.5	96.7
IV 500	38.5	76.2	82.4	87.8	92.4	93.3	95.0	95.9	96.0	96.7	96.8	96.8	97.0	97.2	97.4	97.7
IV 400	38.5	76.2	82.5	87.9	92.5	93.5	95.2	96.3	96.5	97.2	97.4	97.4	97.6	97.8	98.0	98.3
IV 300	38.5	76.2	82.5	87.9	92.5	93.5	95.2	96.3	96.6	97.5	97.6	97.6	97.8	98.0	98.4	98.7
IV 200	38.5	76.2	82.5	87.9	92.5	93.6	95.3	96.4	96.7	97.6	97.9	97.9	98.1	98.3	98.5	99.1
IV 100	38.5	76.2	82.5	87.9	92.5	93.6	95.3	96.4	96.7	97.6	97.9	97.9	98.1	98.3	98.7	99.6
IV 0	38.5	76.2	82.5	87.9	92.5	93.6	95.3	96.4	96.7	97.6	97.9	97.9	98.1	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 2601



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,49-66  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	9.3	53.2	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 20000	45.5	61.5	63.0	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV 18000	45.7	61.7	63.3	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
IV 16000	46.1	62.1	63.6	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IV 14000	48.1	64.8	66.4	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 12000	50.6	68.7	70.4	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 10000	52.2	71.2	73.0	73.5	73.6	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 9000	53.1	72.4	74.2	74.7	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 8000	53.9	74.1	75.9	76.5	76.6	76.7	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 7000	54.4	74.9	76.8	77.5	77.7	77.8	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
IV 6000	54.5	75.3	77.2	77.9	78.1	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 5000	55.7	76.8	78.8	79.4	79.7	79.7	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
IV 4500	56.4	77.7	79.7	80.4	80.7	80.7	80.8	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 4000	57.7	79.6	81.6	82.3	82.5	82.6	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IV 3500	58.5	81.0	83.0	83.7	83.9	84.0	84.1	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV 3000	59.9	83.1	85.1	85.9	86.2	86.2	86.3	86.4	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 2500	61.6	85.7	87.8	88.8	89.2	89.2	89.4	89.5	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 2000	63.2	88.7	91.0	92.3	92.6	92.7	92.9	93.0	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 1800	63.5	89.2	91.6	92.9	93.2	93.4	93.6	93.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IV 1500	64.1	90.6	93.0	94.6	95.0	95.2	95.4	95.5	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 1200	64.5	91.6	94.1	95.8	96.2	96.4	96.7	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 1000	64.6	92.2	94.8	96.6	97.2	97.4	97.7	97.8	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 900	64.6	92.5	95.3	97.0	97.6	97.8	98.2	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 800	64.7	92.7	95.5	97.3	98.0	98.2	98.6	98.7	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 700	64.7	92.8	95.7	97.5	98.2	98.5	98.9	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600	64.7	92.8	95.7	97.5	98.3	98.5	99.0	99.1	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	64.7	92.8	95.7	97.6	98.4	98.6	99.1	99.2	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	64.7	92.8	95.7	97.6	98.4	98.7	99.1	99.3	99.4	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 300	64.7	92.8	95.7	97.6	98.4	98.7	99.1	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	64.7	92.8	95.7	97.6	98.4	98.7	99.1	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	64.7	92.8	95.7	97.6	98.4	98.7	99.1	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	64.7	92.8	95.7	97.6	98.4	98.7	99.1	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

AUG  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	39.1	46.6	46.9	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 18000 16000	48.4	57.8	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
IV 14000 12000	52.2	60.1	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
IV 10000 9000	54.1	65.8	66.5	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
IV 8000 7000	55.4	68.0	68.7	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 6000 5000	56.0	69.7	69.7	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 4500 4000	61.9	76.5	77.4	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 3500 3000	65.4	80.6	81.6	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
IV 2500 2000	73.9	92.2	93.5	94.1	94.5	94.5	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 1800 1500	74.9	94.3	95.8	96.4	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 1200 1000	75.5	95.7	97.2	98.0	98.5	98.5	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 900 800	75.6	96.0	97.5	98.3	98.8	98.8	99.0	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3
IV 700 600	75.7	96.1	97.6	98.4	99.0	99.0	99.2	99.3	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5
IV 500 400	75.7	96.1	97.7	98.5	99.2	99.2	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8
IV 300 200	75.7	96.2	97.7	98.6	99.3	99.3	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 100 0	75.7	96.2	97.7	98.6	99.3	99.3	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1999

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

42-45,49-66

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.Y.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	42.8	50.1	50.6	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 20000	57.1	67.1	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
IVIV 18000	57.4	67.5	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
16000	58.1	68.2	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
IVIV 14000	59.8	70.7	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
12000	62.2	74.3	75.1	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IVIV 10000	63.8	76.8	77.7	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
9000	65.1	78.6	79.5	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
IVIV 8000	66.5	80.4	81.4	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
7000	67.4	81.8	82.8	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IVIV 6000	68.2	82.7	83.8	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
5000	70.5	85.8	87.0	87.3	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IVIV 4500	71.4	87.0	88.3	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
4000	73.1	89.7	91.0	91.3	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IVIV 3500	74.1	91.4	92.7	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
3000	75.6	93.9	95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IVIV 2500	76.2	95.1	96.4	96.9	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2000	76.7	95.9	97.3	97.8	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IVIV 1800	76.3	96.1	97.5	98.0	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
1500	76.9	96.1	97.6	98.1	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IVIV 1200	76.9	96.3	97.7	98.3	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
1000	76.9	96.4	97.9	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IVIV 900	77.1	96.5	98.0	98.6	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
800	77.1	96.6	98.1	98.7	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVIV 700	77.1	96.7	98.2	98.8	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
600	77.1	96.7	98.2	98.9	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IVIV 500	77.1	96.7	98.3	98.9	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
400	77.1	96.7	98.3	98.9	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IVIV 300	77.1	96.7	98.3	98.9	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
200	77.1	96.7	98.3	98.9	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IVIV 100	77.1	96.7	98.3	98.9	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0	77.1	96.7	98.3	98.9	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

42-45,49-66

YEARS

AUG  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	45.5	59.1	60.4	60.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
IV 20000	56.2	73.1	74.6	75.1	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 18000	56.5	73.5	75.0	75.5	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IV 16000	56.8	73.8	75.3	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2
IV 14000	58.3	76.2	77.7	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.6	78.6	78.6
IV 12000	61.7	80.1	81.8	82.3	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
IV 10000	62.2	82.4	84.1	84.7	85.3	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2
IV 9000	63.2	83.8	85.5	86.1	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6
IV 8000	64.2	85.4	87.2	87.8	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4
IV 7000	64.7	86.8	88.6	89.2	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8
IV 6000	65.1	87.3	89.1	89.7	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3
IV 5000	66.3	89.6	91.5	92.1	92.5	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
IV 4500	66.7	90.6	92.5	93.1	93.5	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.8	93.8	93.8	93.8
IV 4000	67.4	91.9	93.8	94.4	94.8	94.9	94.9	95.1	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1
IV 3500	67.7	92.6	94.5	95.1	95.6	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9
IV 3000	67.9	93.5	95.4	96.3	96.8	96.9	96.9	97.1	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1
IV 2500	68.1	94.1	96.0	97.0	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9
IV 2000	68.2	94.6	96.6	97.6	98.3	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6
IV 1800	68.2	94.7	96.6	97.7	98.4	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8
IV 1500	68.3	94.9	96.9	98.0	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
IV 1200	68.3	95.0	97.0	98.2	99.0	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
IV 1000	68.4	95.2	97.2	98.3	99.1	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
IV 900	68.4	95.2	97.2	98.4	99.2	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
IV 800	68.6	95.4	97.4	98.5	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IV 700	68.6	95.4	97.4	98.6	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 600	68.6	95.4	97.4	98.6	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 500	68.6	95.4	97.4	98.6	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 400	68.6	95.4	97.4	98.6	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 300	68.6	95.4	97.4	98.6	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 200	68.6	95.4	97.4	98.6	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 100	68.6	95.4	97.4	98.6	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 0	68.6	95.4	97.4	98.6	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28831

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,49-66  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	41.7	67.8	72.0	70.5	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 20000	46.2	75.7	78.2	78.7	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6
IV 18000	46.2	75.7	78.4	78.9	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 16000	46.6	76.2	78.8	79.3	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.2
IV 14000	47.8	78.1	80.7	81.3	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 12000	49.3	81.2	84.0	84.5	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5
IV 10000	50.3	83.6	86.4	87.0	87.7	87.8	87.8	87.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9
IV 9000	51.7	84.5	87.3	87.8	88.5	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.9
IV 8000	51.6	86.3	89.2	89.8	90.5	90.6	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8
IV 7000	52.1	87.1	90.0	90.6	91.3	91.4	91.4	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 6000	52.5	88.0	91.0	91.5	92.2	92.4	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.6
IV 5000	53.1	89.9	93.0	93.6	94.3	94.4	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.7
IV 4500	53.2	90.1	93.2	93.9	94.6	94.7	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	95.0
IV 4000	53.5	90.9	94.1	94.8	95.5	95.7	95.7	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 3500	53.6	91.2	94.4	95.2	95.9	96.1	96.1	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 3000	53.7	91.7	94.9	95.8	96.6	96.8	96.8	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 2500	53.7	92.4	95.7	96.6	97.3	97.6	97.6	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 2000	53.7	92.5	95.9	96.8	97.6	97.8	97.8	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.2
IV 1800	53.8	92.6	96.0	96.9	97.7	98.0	98.0	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 1500	53.9	92.8	96.2	97.2	98.0	98.2	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1200	53.9	93.0	96.4	97.6	98.4	98.7	98.7	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1000	53.9	93.1	96.6	97.8	98.6	98.9	98.9	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 900	53.9	93.1	96.6	97.8	98.6	98.9	98.9	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 800	54.1	93.2	96.7	97.9	98.7	99.0	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5
IV 700	54.0	93.2	96.7	97.9	98.7	99.0	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5
IV 600	54.1	93.2	96.7	98.0	98.8	99.1	99.1	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.6
IV 500	54.0	93.2	96.7	98.0	98.9	99.1	99.1	99.3	99.3	99.5	99.5	99.5	99.5	99.6	99.6	99.6
IV 400	54.1	93.2	96.7	98.0	98.9	99.1	99.1	99.3	99.3	99.5	99.5	99.5	99.5	99.6	99.6	99.7
IV 300	54.1	93.3	96.8	98.1	99.0	99.2	99.2	99.4	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.8
IV 200	54.1	93.3	96.8	98.1	99.0	99.2	99.2	99.4	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.8
IV 100	54.2	93.4	96.9	98.2	99.1	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	100.0
IV 0	54.2	93.4	96.9	98.2	99.1	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 2001

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

42-46-49-66

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-2200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	25.9	61.6	64.8	66.9	68.4	68.4	68.6	69.1	69.2	69.6	69.6	69.7	69.9	69.9	70.0	70.2
IV 20000	38.6	65.8	69.1	71.3	72.9	72.9	73.1	73.6	73.7	74.1	74.1	74.2	74.3	74.3	74.4	74.7
IV 18000	28.8	66.1	69.4	71.6	73.1	73.1	73.4	73.9	74.0	74.3	74.4	74.4	74.6	74.6	74.7	75.0
IV 16000	39.7	66.3	69.7	71.9	73.4	73.4	73.7	74.2	74.3	74.6	74.7	74.7	74.9	74.9	75.0	75.3
IV 14000	40.7	67.9	71.4	73.5	75.1	75.1	75.4	75.8	75.9	76.3	76.3	76.4	76.6	76.6	76.7	76.9
IV 12000	41.2	70.4	74.0	76.2	77.8	77.8	78.1	78.5	78.6	79.2	79.0	79.1	79.3	79.3	79.4	79.6
IV 10000	41.9	72.3	76.1	78.4	81.2	81.2	81.5	81.9	81.1	81.4	81.4	81.5	81.7	81.7	81.8	82.0
IV 9000	42.1	73.1	77.1	79.4	81.3	81.3	81.6	82.0	82.2	82.5	82.6	82.6	82.8	82.8	82.9	83.1
IV 8000	42.6	74.4	78.5	80.9	82.9	82.9	83.1	83.6	83.7	84.1	84.1	84.2	84.3	84.3	84.4	84.7
IV 7000	43.1	75.6	79.9	82.7	84.6	84.6	84.9	85.4	85.5	85.8	85.9	85.9	86.1	86.1	86.2	86.5
IV 6000	43.1	76.4	80.7	83.5	85.5	85.5	85.7	86.2	86.3	86.7	86.8	86.8	87.0	87.0	87.1	87.3
IV 5000	43.3	77.4	81.9	84.8	86.9	86.9	87.2	87.6	87.8	88.2	88.2	88.3	88.5	88.5	88.6	88.8
IV 4500	43.5	78.1	82.6	85.6	87.6	87.6	87.9	88.4	88.5	88.9	88.9	89.0	89.2	89.2	89.3	89.5
IV 4000	43.8	78.7	83.4	86.4	88.5	88.6	88.9	89.3	89.5	89.9	89.9	90.0	90.1	90.1	90.2	90.5
IV 3500	44.2	79.7	84.5	87.7	89.8	89.9	90.3	90.8	91.0	91.4	91.4	91.4	91.6	91.6	91.7	92.0
IV 3000	44.2	80.3	85.2	88.4	90.5	90.6	91.1	91.6	91.7	92.1	92.2	92.2	92.4	92.4	92.5	92.8
IV 2500	44.2	80.6	85.7	88.9	91.1	91.2	91.7	92.2	92.3	92.7	92.8	92.8	93.0	93.0	93.1	93.3
IV 2000	44.4	81.9	87.1	90.3	92.6	92.7	93.2	93.7	93.8	94.2	94.3	94.3	94.5	94.5	94.6	94.8
IV 1800	44.4	82.1	87.2	90.5	92.8	92.9	93.4	93.9	94.0	94.4	94.4	94.5	94.7	94.7	94.8	95.0
IV 1500	44.4	82.5	87.7	91.2	93.4	93.5	94.0	94.5	94.6	95.1	95.1	95.2	95.4	95.4	95.5	95.7
IV 1200	44.5	82.9	88.0	91.6	93.9	94.0	94.6	95.1	95.3	95.7	95.7	95.8	96.0	96.0	96.1	96.3
IV 1000	44.6	83.1	88.3	92.1	94.5	94.6	95.4	95.8	96.0	96.4	96.5	96.5	96.7	96.7	96.8	97.1
IV 900	44.6	83.2	88.4	92.2	94.6	94.7	95.6	96.1	96.2	96.7	96.8	96.8	97.0	97.0	97.1	97.3
IV 800	44.6	83.2	88.4	92.3	94.7	94.8	95.7	96.2	96.4	96.9	96.9	97.0	97.1	97.1	97.2	97.5
IV 700	44.6	83.4	88.6	92.6	95.0	95.1	96.2	96.8	96.9	97.4	97.4	97.5	97.7	97.7	97.8	98.0
IV 600	44.6	83.5	88.7	92.6	95.1	95.2	96.4	97.1	97.1	97.6	97.6	97.7	97.9	97.9	98.0	98.2
IV 500	44.6	83.6	88.8	92.9	95.5	95.6	96.9	97.4	97.6	98.1	98.1	98.2	98.4	98.4	98.5	98.7
IV 400	44.6	83.6	89.0	93.0	95.7	95.8	97.1	97.7	97.8	98.3	98.4	98.4	98.6	98.6	98.7	98.9
IV 300	44.6	83.6	89.1	93.1	95.8	95.9	97.2	97.8	97.9	98.4	98.5	98.5	98.7	98.7	98.8	99.0
IV 200	44.6	83.6	89.1	93.2	95.8	96.0	97.3	97.9	98.0	98.5	98.6	98.6	98.9	98.9	99.0	99.3
IV 100	44.6	83.6	89.1	93.2	95.8	96.0	97.3	97.9	98.0	98.5	98.6	98.6	98.9	98.9	99.0	99.3
IV 0	44.6	83.6	89.1	93.2	95.8	96.0	97.3	97.9	98.0	98.5	98.6	98.6	99.0	99.1	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 2770

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	26.8	50.1	54.6	57.2	60.1	63.3	61.3	61.7	61.9	62.9	63.1	63.2	64.0	64.0	64.6	65.3
IV 20000	28.8	54.3	59.0	62.0	65.7	65.3	66.3	66.8	67.0	67.9	68.2	68.3	69.0	69.1	69.7	70.4
IV 18000	28.8	54.7	59.4	62.5	65.5	65.7	66.8	67.2	67.4	68.4	68.6	68.7	69.5	69.5	70.1	70.8
IV 16000	28.8	54.8	59.5	62.6	65.6	65.8	66.9	67.4	67.5	68.5	68.7	68.8	69.6	69.7	70.2	71.0
IV 14000	29.8	56.4	61.3	64.3	67.3	67.6	68.6	69.1	69.3	70.2	70.5	70.6	71.4	71.4	72.0	72.7
IV 12000	31.1	59.2	64.1	67.2	70.2	70.5	71.6	72.1	72.2	73.2	73.4	73.5	74.3	74.3	74.9	75.7
IV 10000	31.9	61.3	66.1	69.8	73.0	73.3	74.4	74.9	75.1	76.0	76.3	76.4	77.1	77.2	77.8	78.5
IV 9000	32.2	62.2	67.3	70.7	74.0	74.3	75.4	75.9	76.0	77.0	77.2	77.3	78.1	78.2	78.7	79.5
IV 8000	32.7	63.5	68.9	72.4	75.6	75.9	77.0	77.6	77.8	78.7	79.0	79.1	79.9	79.9	80.5	81.2
IV 7000	33.2	64.8	70.2	73.7	77.1	77.3	78.5	79.1	79.3	80.2	80.5	80.6	81.4	81.4	82.0	82.8
IV 6000	33.4	65.3	71.0	74.6	77.9	78.2	79.4	80.0	80.2	81.3	81.5	81.6	82.4	82.5	83.1	83.8
IV 5000	33.6	66.5	72.2	75.9	79.5	79.8	81.0	81.6	81.8	82.9	83.1	83.2	84.0	84.1	84.7	85.4
IV 4500	33.6	66.8	72.5	76.2	79.8	80.1	81.4	81.9	82.1	83.2	83.4	83.5	84.3	84.4	85.1	85.8
IV 4000	34.1	67.9	73.7	77.5	81.1	81.4	82.7	83.2	83.4	84.5	84.8	84.9	85.7	85.7	86.4	87.1
IV 3500	34.1	68.5	74.4	78.4	82.1	82.4	83.6	84.2	84.4	85.5	85.8	85.9	86.7	86.8	87.4	88.2
IV 3000	34.3	69.4	75.6	79.8	83.7	84.1	85.3	85.9	86.1	87.1	87.5	87.6	88.4	88.5	89.1	89.9
IV 2500	34.5	70.1	76.4	80.6	84.5	84.8	86.2	86.8	87.0	88.0	88.4	88.5	89.3	89.3	90.0	90.7
IV 2000	34.8	71.3	77.7	82.0	86.0	86.3	87.7	88.3	88.5	89.6	89.9	90.0	90.8	90.9	91.5	92.3
IV 1800	34.8	71.5	78.0	82.3	86.3	86.6	88.0	88.6	88.8	89.9	90.2	90.3	91.1	91.2	91.8	92.6
IV 1500	35.1	72.5	79.1	83.4	87.5	87.8	89.3	89.9	90.1	91.2	91.5	91.6	92.4	92.5	93.1	93.9
IV 1200	35.2	73.1	79.8	84.2	88.5	88.8	90.4	91.0	91.2	92.2	92.6	92.7	93.5	93.5	94.2	95.0
IV 1000	35.5	73.6	80.3	85.0	89.3	89.7	91.3	91.9	92.1	93.2	93.5	93.6	94.4	94.5	95.2	95.9
IV 900	35.5	73.7	80.4	85.1	89.5	89.8	91.5	92.1	92.3	93.4	93.8	93.9	94.7	94.7	95.4	96.2
IV 800	35.5	73.9	80.7	85.4	89.9	90.2	91.9	92.6	92.8	93.9	94.2	94.3	95.1	95.2	95.8	96.6
IV 700	35.5	73.9	80.7	85.5	90.1	90.5	92.4	93.0	93.2	94.3	94.7	94.8	95.6	95.7	96.3	97.1
IV 600	35.5	74.0	80.8	85.7	90.3	90.7	92.7	93.4	93.6	94.7	95.1	95.2	96.0	96.0	96.7	97.5
IV 500	35.5	74.1	81.0	85.9	90.6	91.1	93.0	93.7	93.9	95.1	95.4	95.5	96.3	96.4	97.1	97.8
IV 400	35.5	74.1	81.0	85.9	90.6	91.1	93.2	94.0	94.2	95.4	95.7	95.8	96.7	96.7	97.4	98.2
IV 300	35.5	74.1	81.1	86.1	90.9	91.4	93.5	94.3	94.5	95.8	96.1	96.2	97.1	97.1	97.8	98.6
IV 200	35.5	74.1	81.1	86.2	91.0	91.5	93.6	94.4	94.6	96.2	96.6	96.7	97.7	97.7	98.4	99.2
IV 100	35.5	74.1	81.1	86.2	91.0	91.5	93.6	94.4	94.6	96.2	96.7	96.8	97.7	97.8	98.5	99.4
IV 0	35.5	74.1	81.1	86.2	91.0	91.5	93.6	94.4	94.6	96.2	96.7	96.8	97.8	97.8	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 2070



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

C600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	30.7 34.2	45.5 52.2	48.6 53.6	51.1 56.4	52.8 58.4	53.2 58.8	54.1 59.9	54.6 60.5	54.7 60.6	55.1 61.1	55.4 61.4	55.5 61.5	55.9 61.9	55.9 61.9	56.2 62.2	56.9 63.0
IVIV 18000 16000	34.3 34.5	50.3 52.8	53.7 54.2	56.5 57.7	58.6 59.2	59.0 59.5	60.1 60.7	60.7 61.2	60.8 61.3	61.3 61.9	61.6 62.2	61.6 62.2	62.1 62.6	62.1 62.6	62.3 62.9	63.2 63.8
IVIV 14000 12000	35.4 36.6	52.7 55.2	56.2 58.8	59.0 61.8	61.2 64.7	61.6 64.4	62.7 65.6	63.3 66.3	63.4 66.4	63.9 66.9	64.2 67.2	64.3 67.2	64.7 67.7	64.7 67.7	65.0 68.0	65.8 68.8
IVIV 10000 9000	38.2 39.5	58.0 59.2	61.9 63.0	64.9 66.1	67.2 68.5	67.6 68.9	68.7 70.1	69.4 70.8	69.5 70.9	70.0 71.4	70.3 71.7	70.4 71.7	70.8 72.2	70.8 72.2	71.1 72.5	71.9 73.3
IVIV 8000 7000	39.8 40.6	60.6 61.8	64.4 65.9	67.6 69.2	70.0 71.6	70.4 72.0	71.8 73.6	72.5 74.3	72.6 74.4	73.2 75.0	73.5 75.3	73.6 75.4	74.0 75.8	74.0 75.8	74.3 76.1	75.1 76.9
IVIV 6000 5000	41.0 41.8	62.5 64.1	66.7 68.3	70.0 71.8	72.5 74.3	72.8 74.7	74.4 76.2	75.1 76.9	75.2 77.0	75.8 77.7	76.2 78.0	76.2 78.1	76.7 78.5	76.7 78.5	76.9 78.8	77.9 79.7
IVIV 4500 4000	42.1 42.6	64.7 66.2	68.9 70.4	72.5 74.0	75.3 76.8	75.7 77.2	77.3 78.8	78.1 79.6	78.2 79.7	78.8 80.3	79.1 80.7	79.2 80.7	79.6 81.2	79.6 81.2	79.9 81.4	80.8 82.4
IVIV 3500 3000	43.0 43.5	66.9 68.1	71.5 72.7	75.3 76.7	78.2 79.8	78.6 80.2	80.2 81.8	81.0 82.6	81.1 82.7	81.7 83.4	82.0 83.8	82.1 83.8	82.5 84.2	82.5 84.2	82.8 84.5	83.7 85.5
IVIV 2500 2000	43.9 44.5	68.9 70.4	73.7 75.4	77.7 79.7	80.9 82.8	81.4 83.3	83.1 85.0	83.9 85.8	84.1 86.0	84.8 86.7	85.1 87.0	85.2 87.1	85.6 87.5	85.6 87.5	85.9 87.8	86.8 88.7
IVIV 1800 1500	44.8 45.0	70.9 71.6	75.9 76.8	80.2 81.3	83.5 84.6	84.0 85.3	85.7 87.2	86.6 88.1	86.7 88.2	87.4 88.9	87.8 89.3	87.8 89.3	88.3 89.8	88.3 89.8	88.5 90.0	89.5 91.0
IVIV 1200 1000	45.2 45.3	72.7 73.4	77.9 78.9	82.6 83.7	86.1 87.4	86.8 88.2	88.7 90.4	89.6 91.3	89.8 91.4	90.5 92.2	90.9 92.6	90.9 92.7	91.3 93.1	91.3 93.1	91.6 93.4	92.6 94.3
IVIV 900 800	45.3 45.4	73.7 73.9	79.2 79.5	84.1 84.4	87.8 88.2	88.5 88.9	90.8 91.3	91.7 92.3	91.9 92.4	92.7 93.2	93.1 93.7	93.2 93.8	93.6 94.2	93.6 94.2	93.9 94.5	94.8 95.4
IVIV 700 600	45.4 45.4	74.2 74.2	79.8 79.9	84.9 85.3	88.7 89.1	89.5 90.0	91.9 92.4	92.8 93.4	93.0 93.6	93.8 94.6	94.2 95.0	94.3 95.1	94.8 95.6	94.8 95.6	95.1 95.9	96.0 96.8
IVIV 500 400	45.4 45.4	74.4 74.5	80.1 80.2	85.7 85.9	89.6 89.8	90.5 90.7	93.1 93.4	94.1 94.4	94.3 94.6	95.4 95.8	95.8 96.3	95.9 96.4	96.4 96.9	96.4 96.9	96.7 97.2	97.6 98.1
IVIV 300 200	45.4 45.4	74.6 74.6	80.4 80.4	86.1 86.1	90.0 90.0	91.0 91.0	93.7 93.7	94.9 94.9	95.2 95.2	96.6 96.7	97.1 97.2	97.1 97.3	97.7 97.9	97.7 97.9	98.0 98.3	99.0 99.4
IVIV 100 0	45.4 45.4	74.6 74.6	80.4 80.4	86.2 86.2	90.1 90.1	91.0 91.0	93.8 93.8	95.0 95.0	95.3 95.3	96.8 96.8	97.3 97.3	97.4 97.4	98.0 98.0	98.0 98.0	98.4 98.4	99.8 100.0

TOTAL NUMBER OF OBSERVATIONS 2069



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	44.7	52.2	53.1	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.9	53.9	53.9	53.9
IV 18000 16000	50.3	59.9	60.9	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8
IV 14000 12000	52.1	62.1	63.2	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
IV 10000 9000	55.7	67.1	68.4	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.4
IV 8000 7000	57.4	69.9	71.2	72.1	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4
IV 6000 5000	58.7	71.8	73.0	74.0	74.2	74.3	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 4500 4000	59.6	73.2	74.4	75.4	75.6	75.7	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 3500 3000	60.3	74.1	75.4	76.4	76.7	76.8	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 2500 2000	62.3	76.9	78.3	79.4	79.7	79.8	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 1800 1500	64.3	80.7	81.4	82.6	82.8	82.9	83.0	83.1	83.1	83.1	83.1	83.1	83.2	83.2	83.2	83.2
IV 1200 1000	66.2	82.6	84.2	85.3	85.6	85.7	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 900 800	67.6	85.4	87.1	88.3	88.7	88.9	89.1	89.3	89.3	89.4	89.4	89.4	89.5	89.5	89.5	89.5
IV 700 600	67.7	85.7	87.5	88.8	89.2	89.4	89.7	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 500 400	68.7	87.3	89.2	90.7	91.1	91.4	91.6	91.8	91.8	92.0	92.0	92.0	92.1	92.1	92.1	92.1
IV 300 200	69.4	89.4	91.5	93.0	93.6	93.9	94.3	94.5	94.5	94.7	94.7	94.7	94.8	94.8	94.8	94.8
IV 100 0	69.5	90.0	92.2	93.9	94.9	95.2	95.7	95.9	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1
IV 0	69.5	90.3	92.7	94.3	95.3	95.6	96.1	96.4	96.4	96.6	96.6	96.6	96.7	96.7	96.7	96.7
IV 0	69.6	90.5	92.9	94.7	96.0	96.3	96.9	97.2	97.2	97.4	97.4	97.4	97.5	97.5	97.5	97.5
IV 0	69.6	90.8	93.3	95.2	96.7	97.0	97.5	97.9	97.9	98.1	98.1	98.1	98.2	98.2	98.2	98.2
IV 0	69.7	91.1	93.6	95.6	97.1	97.3	97.9	98.3	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6
IV 0	69.8	91.4	93.9	95.9	97.5	97.9	98.5	99.0	99.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3
IV 0	69.8	91.4	93.9	96.0	97.7	98.1	98.9	99.4	99.4	99.7	99.7	99.7	99.8	99.8	99.8	99.8
IV 0	69.8	91.4	94.0	96.0	97.8	98.1	99.0	99.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 0	69.8	91.4	94.0	96.0	97.8	98.1	99.0	99.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0
IV 0	69.8	91.4	94.0	96.0	97.8	98.1	99.0	99.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2370

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SPYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	45.2 53.3	50.1 58.8	50.2 59.0	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1	50.3 59.1
IVIV 18000 16000	53.3 54.1	59.1 60.1	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3	59.3 60.3
IVIV 14000 12000	55.5 57.8	61.5 64.1	61.7 64.2	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3	61.7 64.3
IVIV 10000 9000	59.2 59.8	65.8 66.7	66.1 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1	66.2 67.1
IVIV 8000 7000	61.9 62.4	68.5 70.4	69.0 70.9	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1	69.1 71.1
IVIV 6000 5000	63.3 64.7	71.1 73.1	71.6 73.8	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9	71.8 73.9
IVIV 4500 4000	66.3 69.3	74.5 78.5	75.2 79.3	75.4 79.6	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7	75.5 79.7
IVIV 3500 3000	71.2 74.7	80.6 85.1	81.4 86.0	81.8 86.5	81.8 86.6	81.8 86.6	81.9 86.7	81.9 86.7	81.9 86.7	81.9 86.7	81.9 86.7	81.9 86.7	81.9 86.7	81.9 86.7	81.9 86.7	81.9 86.7
IVIV 2500 2000	76.8 78.5	87.5 89.8	88.7 91.3	89.3 91.8	89.3 91.9	89.3 92.0	89.4 92.1	89.4 92.2	89.4 92.2	89.5 92.2	89.5 92.2	89.5 92.2	89.5 92.2	89.5 92.2	89.5 92.2	89.5 92.2
IVIV 1800 1500	78.7 79.4	90.5 91.9	92.1 93.7	92.7 94.4	92.9 94.7	92.9 94.8	93.1 95.0	93.2 95.1	93.2 95.1	93.3 95.2	93.3 95.2	93.3 95.2	93.3 95.2	93.3 95.2	93.3 95.2	93.3 95.2
IVIV 1200 1000	79.8 80.3	93.2 93.5	95.1 95.6	96.0 96.5	96.4 97.0	96.5 97.1	96.7 97.4	96.8 97.5	96.8 97.5	97.0 97.6	97.0 97.6	97.0 97.6	97.0 97.6	97.0 97.6	97.0 97.6	97.0 97.6
IVIV 900 800	81.0 81.3	93.7 93.8	95.7 95.8	96.8 97.0	97.4 97.8	97.5 98.0	97.9 98.5	98.0 98.6	98.0 98.6	98.1 98.7	98.1 98.7	98.1 98.7	98.1 98.7	98.1 98.7	98.1 98.7	98.1 98.7
IVIV 700 600	82.1 82.1	94.0 94.0	96.1 96.2	97.2 97.4	98.2 98.5	98.4 98.8	98.9 99.3	99.0 99.6	99.0 99.6	99.2 99.8	99.2 99.8	99.2 99.8	99.2 99.8	99.3 99.9	99.3 99.9	99.3 99.9
IVIV 500 400	82.1 82.1	94.1 94.1	96.2 96.2	97.5 97.5	98.6 98.6	98.8 98.8	99.4 99.4	99.6 99.7	99.6 99.7	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.9 100.0	99.9 100.0	99.9 100.0
IVIV 300 200	82.1 82.1	94.1 94.1	96.2 96.2	97.5 97.5	98.6 98.6	98.8 98.8	99.4 99.4	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0
IVIV 100 0	82.1 82.1	94.1 94.1	96.2 96.2	97.5 97.5	98.6 98.6	98.8 98.8	99.4 99.4	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 2069

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

14827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	49.2 58.8	52.9 63.8	53.0 64.1	53.1 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3	53.2 64.3
IVV 18000 16000	59.5 60.3	64.4 65.3	64.7 65.7	64.9 65.8	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9	65.0 65.9
IVV 14000 12000	62.5 64.7	67.7 70.4	68.1 70.8	68.3 71.0	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1	68.4 71.1
IVV 10000 9000	66.9 67.9	73.2 74.7	73.6 75.1	73.8 75.4	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5	73.9 75.5
IVV 8000 7000	69.7 71.4	76.9 79.3	77.3 79.7	77.6 80.0	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2	77.7 80.2
IVV 6000 5000	72.1 73.3	80.1 82.3	80.6 82.8	80.9 83.1	81.1 83.4	81.1 83.4	81.2 83.5	81.2 83.5	81.2 83.5	81.2 83.5	81.2 83.5	81.2 83.5	81.2 83.5	81.2 83.5	81.2 83.5	81.2 83.5
IVV 4500 4000	73.7 75.6	82.8 85.3	83.4 86.0	83.7 86.3	84.1 86.7	84.1 86.7	84.3 86.9	84.3 86.9	84.3 86.9	84.3 86.9	84.3 86.9	84.3 86.9	84.3 86.9	84.3 86.9	84.3 86.9	84.3 86.9
IVV 3500 3000	77.1 77.5	87.4 89.4	88.2 90.2	88.6 90.6	88.9 91.0	88.9 91.0	89.1 91.2	89.2 91.3	89.2 91.3	89.2 91.3	89.2 91.3	89.2 91.3	89.2 91.3	89.2 91.3	89.2 91.3	89.2 91.3
IVV 2500 2000	78.7 79.2	91.1 92.5	92.0 93.6	92.6 94.3	93.0 94.8	93.0 94.8	93.2 95.0	93.3 95.1	93.3 95.1	93.3 95.1	93.3 95.1	93.3 95.1	93.3 95.1	93.3 95.1	93.3 95.1	93.3 95.1
IVV 1800 1500	79.4 79.6	93.0 93.5	94.3 94.9	94.9 95.7	95.5 96.3	95.5 96.3	95.7 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6
IVV 1200 1000	79.8 79.9	94.2 94.4	96.0 96.2	97.0 97.3	97.6 98.1	97.7 98.2	98.0 98.5	98.0 98.6	98.0 98.6	98.0 98.6	98.0 98.6	98.0 98.6	98.0 98.6	98.0 98.6	98.0 98.6	98.0 98.6
IVV 900 800	79.9 79.9	94.4 94.4	96.3 96.4	97.4 97.7	98.2 98.5	98.3 98.6	98.7 98.9	98.7 99.1	98.7 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1	98.8 99.1
IVV 700 600	79.9 79.9	94.4 94.4	96.4 96.4	97.7 97.7	98.5 98.6	98.6 98.7	98.9 99.1	99.1 99.4	99.1 99.4	99.2 99.5	99.2 99.5	99.2 99.5	99.2 99.5	99.3 99.5	99.3 99.5	99.3 99.5
IVV 500 400	79.9 79.9	94.5 94.5	96.4 96.4	97.8 97.8	98.7 98.7	98.8 98.8	99.2 99.2	99.6 99.6	99.6 99.6	99.8 99.8	99.8 99.8	99.8 99.8	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9
IVV 300 200	79.9 79.9	94.5 94.5	96.4 96.4	97.8 97.8	98.7 98.7	98.8 98.8	99.3 99.3	99.7 99.7	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0
IVV 100 0	79.9 79.9	94.5 94.5	96.4 96.4	97.8 97.8	98.7 98.7	98.8 98.8	99.3 99.3	99.7 99.7	99.8 99.8	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 2670

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

42-46,49-66

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2600  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	57.4	61.3	61.9	62.2	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IVIV 18000 16000	57.8	70.6	71.4	71.7	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IVIV 14000 12000	58.1	71.7	71.9	72.2	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
IVIV 10000 9000	59.4	72.8	73.7	74.7	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IVIV 8000 7000	62.8	74.8	75.9	76.3	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IVIV 6000 5000	62.3	77.7	78.2	78.6	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IVIV 4500 4000	62.9	78.6	79.9	80.3	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IVIV 3500 3000	64.4	80.7	82.1	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IVIV 2500 2000	65.1	82.2	83.5	84.0	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IVIV 1800 1500	65.4	82.6	84.2	84.7	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
IVIV 1200 1000	66.2	84.2	85.8	86.5	86.9	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IVIV 900 800	66.2	84.7	86.4	87.1	87.4	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
IVIV 700 600	67.1	86.5	88.2	88.9	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IVIV 500 400	67.4	87.1	88.9	89.7	90.1	90.2	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IVIV 300 200	67.7	88.6	90.4	91.3	91.7	91.8	92.1	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IVIV 100 0	68.4	90.2	92.1	93.3	93.5	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IVIV	68.6	90.8	92.9	93.9	94.5	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IVIV	68.7	91.1	93.2	94.4	95.0	95.1	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IVIV	68.8	91.6	94.2	95.4	96.0	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IVIV	68.9	91.9	94.6	96.0	96.8	97.0	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IVIV	69.2	92.0	94.8	96.3	97.2	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IVIV	69.2	92.2	95.0	96.5	97.4	97.5	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IVIV	69.2	92.4	95.3	96.9	97.9	98.0	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IVIV	69.2	92.4	95.4	97.0	98.1	98.3	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IVIV	69.2	92.4	95.5	97.1	98.2	98.4	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IVIV	69.2	92.4	95.5	97.1	98.2	98.4	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IVIV	69.0	92.5	95.5	97.1	98.3	98.5	99.1	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
IVIV	69.0	92.5	95.5	97.1	98.3	98.5	99.1	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IVIV	69.0	92.5	95.5	97.1	98.3	98.5	99.3	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IVIV	69.0	92.5	95.6	97.2	98.3	98.5	99.3	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2579

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEHART AFB

42-46, 49-66

YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	45.8	65.7	68.2	69.0	69.2	69.3	69.7	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	70.0
IV 20000	49.3	71.7	73.2	74.2	74.4	74.5	74.9	75.1	75.0	75.0	75.0	75.0	75.1	75.1	75.1	75.1
IV 18000	49.9	71.4	73.9	74.8	75.0	75.1	75.6	75.7	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.8
IV 16000	50.2	71.7	74.3	75.2	75.4	75.5	75.9	76.1	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 14000	51.1	73.4	76.0	76.9	77.2	77.3	77.7	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	78.0
IV 12000	52.1	75.3	78.0	78.9	79.2	79.3	79.8	79.9	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.1
IV 10000	52.8	77.6	80.6	81.6	82.1	82.1	82.5	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.8
IV 9000	53.1	78.4	81.5	82.4	82.9	83.0	83.4	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.7
IV 8000	53.8	79.7	82.7	83.8	84.2	84.3	84.8	84.9	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.1
IV 7000	54.4	80.8	84.0	85.1	85.5	85.6	86.1	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.4
IV 6000	54.6	81.6	85.0	86.1	86.6	86.6	87.1	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.4
IV 5000	54.9	82.5	85.8	87.2	87.9	88.0	88.4	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.7
IV 4500	55.2	83.2	86.6	88.0	88.6	88.7	89.2	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.5
IV 4000	55.8	84.2	87.9	89.3	89.9	90.1	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.9
IV 3500	56.1	85.1	88.8	90.3	91.0	91.1	91.7	91.8	91.8	91.8	91.8	91.8	91.9	91.9	91.9	92.0
IV 3000	56.3	85.9	89.6	91.1	91.8	92.0	92.5	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.8
IV 2500	56.5	86.6	90.6	92.2	92.9	93.0	93.6	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.9
IV 2000	56.7	87.7	91.8	93.4	94.3	94.4	95.1	95.2	95.2	95.3	95.3	95.3	95.4	95.4	95.4	95.5
IV 1800	56.7	87.9	92.1	93.9	94.8	94.9	95.6	95.7	95.7	95.8	95.8	95.8	95.9	95.9	95.9	96.0
IV 1500	56.7	88.1	92.4	94.2	95.1	95.3	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.3
IV 1200	56.8	88.6	93.0	94.9	95.8	95.0	96.8	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.1
IV 1000	56.8	88.7	93.2	95.2	96.2	96.4	97.1	97.2	97.2	97.3	97.3	97.3	97.4	97.4	97.4	97.5
IV 900	56.8	88.8	93.3	95.3	96.4	96.6	97.5	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.8
IV 800	56.8	88.9	93.4	95.5	96.7	96.9	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.1
IV 700	56.8	89.1	93.6	95.7	96.9	97.0	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.5
IV 600	56.8	89.2	93.7	95.9	97.0	97.3	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9
IV 500	56.8	89.4	93.9	96.2	97.4	97.6	98.8	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.2
IV 400	56.8	89.5	94.0	96.2	97.5	97.7	99.0	99.2	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.6
IV 300	56.8	89.5	94.0	96.2	97.5	97.8	99.1	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.7
IV 200	56.8	89.5	94.0	96.2	97.5	97.8	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.9
IV 100	56.8	89.5	94.0	96.2	97.5	97.8	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.9
IV 0	56.8	89.5	94.0	96.2	97.5	97.8	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 267

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	35.8	62.8	56.7	69.7	71.1	71.2	71.7	71.9	72.0	72.1	72.1	72.1	72.3	72.3	72.5	72.8
IVV 18000	38.1	65.8	69.9	72.9	74.4	74.5	75.0	75.2	75.3	75.4	75.4	75.4	75.5	75.5	75.8	76.0
IVV 16000	38.3	66.1	70.2	73.2	74.6	74.7	75.2	75.5	75.6	75.7	75.7	75.7	75.8	75.8	76.1	76.3
IVV 14000	39.2	67.2	71.3	74.3	75.8	75.9	76.4	76.6	76.7	76.8	76.8	76.8	76.9	76.9	77.2	77.4
IVV 12000	41.1	68.7	72.9	75.9	77.4	77.4	78.0	78.2	78.3	78.4	78.4	78.4	78.5	78.5	78.8	79.0
IVV 10000	41.8	70.4	74.6	77.6	79.1	79.1	79.6	79.9	80.0	80.1	80.1	80.1	80.2	80.2	80.5	80.7
IVV 9000	41.1	71.0	75.2	78.2	79.7	79.8	80.3	80.5	80.6	80.7	80.7	80.7	80.9	80.9	81.1	81.4
IVV 8000	42.1	72.9	77.1	80.1	81.5	81.7	82.3	82.5	82.6	82.7	82.7	82.7	82.8	82.8	83.1	83.3
IVV 7000	42.5	74.1	78.3	81.3	82.8	83.0	83.6	83.8	83.9	84.0	84.0	84.0	84.1	84.1	84.4	84.7
IVV 6000	43.2	75.4	79.7	82.8	84.3	84.4	85.0	85.3	85.4	85.4	85.5	85.5	85.6	85.6	85.9	86.1
IVV 5000	43.8	76.6	81.1	84.4	85.9	86.1	86.7	86.9	87.0	87.1	87.1	87.1	87.3	87.3	87.6	87.8
IVV 4500	44.1	77.2	81.7	84.9	86.5	86.6	87.2	87.5	87.6	87.6	87.7	87.7	87.8	87.8	88.1	88.3
IVV 4000	44.5	77.9	82.5	85.9	87.5	87.6	88.2	88.4	88.5	88.6	88.7	88.7	88.8	88.8	89.1	89.3
IVV 3500	44.6	78.3	83.1	86.7	88.3	88.6	89.2	89.3	89.6	89.7	89.7	89.8	89.8	89.9	90.1	90.4
IVV 3000	44.8	79.1	84.0	87.6	89.4	89.8	90.5	90.7	90.8	90.9	91.0	91.0	91.1	91.1	91.4	91.6
IVV 2500	45.0	79.8	84.7	88.4	90.2	90.5	91.2	91.5	91.6	91.7	91.7	91.7	91.9	91.9	92.1	92.4
IVV 2000	45.4	80.7	85.8	89.5	91.4	91.8	92.5	92.7	92.8	92.9	93.0	93.0	93.1	93.1	93.4	93.6
IVV 1800	45.4	80.9	86.1	89.7	91.6	92.0	92.7	92.9	93.0	93.1	93.2	93.2	93.3	93.3	93.6	93.8
IVV 1500	45.7	81.6	86.7	90.5	92.4	92.8	93.5	93.7	93.8	93.9	94.0	94.0	94.1	94.1	94.4	94.6
IVV 1200	45.8	82.3	87.5	91.3	93.3	93.7	94.5	94.7	94.8	94.9	94.9	94.9	95.1	95.1	95.4	95.6
IVV 1000	45.8	82.5	87.7	91.7	93.8	94.2	95.0	95.3	95.4	95.5	95.5	95.5	95.6	95.6	95.9	96.2
IVV 900	45.8	82.9	88.2	92.1	94.4	94.9	95.6	95.9	96.0	96.1	96.1	96.1	96.3	96.3	96.5	96.8
IVV 800	45.8	83.2	88.6	92.6	94.9	95.4	96.2	96.4	96.5	96.6	96.7	96.7	96.8	96.8	97.1	97.3
IVV 700	45.8	83.2	88.7	92.7	95.2	95.6	96.4	96.6	96.7	96.8	96.8	96.8	97.1	97.1	97.3	97.6
IVV 600	45.8	83.6	89.1	93.3	95.8	96.2	97.0	97.2	97.3	97.4	97.4	97.4	97.7	97.7	97.9	98.2
IVV 500	45.8	83.9	89.4	93.6	96.2	96.6	97.4	97.7	97.8	97.8	97.9	97.9	98.1	98.1	98.4	98.6
IVV 400	45.8	83.9	89.4	93.6	96.2	96.6	97.5	97.8	97.9	98.0	98.1	98.1	98.3	98.3	98.5	98.8
IVV 300	45.8	83.9	89.5	93.7	96.4	96.8	97.7	98.1	98.2	98.3	98.4	98.4	98.5	98.5	98.8	99.1
IVV 200	45.8	83.9	89.5	93.7	96.4	96.8	97.8	98.2	98.3	98.5	98.6	98.6	98.8	98.8	99.1	99.3
IVV 100	45.8	83.9	89.5	93.7	96.4	96.8	97.8	98.2	98.3	98.5	98.7	98.7	98.9	98.9	99.2	99.5
IVV 0	45.8	83.9	89.5	93.7	96.4	96.8	97.8	98.2	98.3	98.5	98.7	98.7	98.9	98.9	99.2	99.5

TOTAL NUMBER OF OBSERVATIONS 2137

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	76.7 28.1	53.1 56.1	57.5 60.6	52.2 65.4	64.8 68.1	65.4 68.6	66.0 69.2	66.5 69.8	66.5 69.8	67.0 70.3	67.2 70.5	67.2 70.5	67.6 70.9	67.6 70.9	68.0 71.3	68.6 71.9
IVV 18000 16000	78.1 28.1	56.1 56.1	60.6 60.7	65.5 65.5	68.1 68.2	68.6 68.7	69.2 69.3	69.8 69.9	69.8 69.9	70.4 70.5	70.5 70.6	70.5 70.6	70.9 71.0	70.9 71.0	71.3 71.4	72.0 72.1
IVV 14000 12000	78.6 29.6	57.1 58.8	61.7 63.5	66.5 68.3	69.2 71.0	69.7 71.5	70.3 72.1	70.9 72.7	70.9 72.7	71.4 73.3	71.6 73.4	71.6 73.4	72.0 73.8	72.0 73.8	72.4 74.2	73.1 74.9
IVV 10000 9000	30.5 30.5	60.6 61.5	65.4 66.3	70.2 71.2	72.9 74.1	73.4 74.6	74.1 75.2	74.7 75.8	74.7 75.8	75.2 76.3	75.4 76.5	75.4 76.5	75.7 76.9	75.7 76.9	76.2 77.3	76.8 78.0
IVV 8000 7000	31.4 31.9	63.1 64.5	68.0 69.8	73.0 74.9	75.9 77.8	76.4 77.8	77.0 79.0	77.7 79.6	77.7 79.6	78.2 80.1	78.4 80.3	78.4 80.3	78.7 80.6	78.7 80.6	79.1 81.1	79.8 81.8
IVV 6000 5000	32.4 33.1	65.4 67.2	70.9 72.7	76.0 77.9	78.9 80.8	79.4 81.3	80.0 82.0	80.7 82.7	80.7 82.7	81.2 83.2	81.4 83.4	81.4 83.4	81.8 83.7	81.8 83.7	82.2 84.2	82.9 84.9
IVV 4500 4000	33.5 33.6	68.2 68.6	73.6 74.1	78.9 79.3	81.8 82.3	82.3 82.8	83.0 83.5	83.6 84.2	83.6 84.2	84.2 84.7	84.3 84.9	84.3 84.9	84.7 85.3	84.7 85.3	85.2 85.7	85.8 86.4
IVV 3500 3000	33.8 34.1	69.1 69.9	74.7 75.5	80.0 80.8	83.0 84.0	83.5 84.5	84.3 85.4	85.0 86.0	85.0 86.0	85.5 86.5	85.7 86.7	85.7 86.7	86.1 87.1	86.1 87.1	86.5 87.6	87.2 88.2
IVV 2500 2000	34.3 34.8	70.8 72.3	76.5 78.1	82.1 83.9	85.3 87.1	85.8 87.8	86.7 88.6	87.3 89.2	87.3 89.2	87.9 89.8	88.1 90.0	88.1 90.0	88.5 90.4	88.5 90.4	88.9 90.8	89.6 91.5
IVV 1800 1500	34.9 35.1	72.4 73.3	78.2 79.1	84.0 84.9	87.2 88.2	87.8 88.9	88.7 89.8	89.3 90.4	89.3 90.4	89.9 91.0	90.1 91.2	90.1 91.2	90.5 91.5	90.5 91.5	90.9 92.0	91.6 92.7
IVV 1200 1000	35.3 35.3	74.5 75.0	80.5 81.1	86.4 87.1	89.9 90.8	90.6 91.5	91.6 92.4	92.3 93.1	92.3 93.1	92.8 93.7	93.0 93.9	93.0 93.9	93.4 94.2	93.4 94.2	93.9 94.7	94.5 95.4
IVV 900 800	35.2 35.4	75.1 75.5	81.3 81.9	87.4 88.0	91.2 91.8	91.9 92.5	92.8 93.5	93.5 94.2	93.5 94.2	94.1 94.8	94.3 95.0	94.3 95.0	94.7 95.3	94.7 95.3	95.1 95.8	95.8 96.4
IVV 700 600	35.4 35.4	75.6 75.8	82.1 82.3	88.3 88.5	92.1 92.5	92.8 93.2	93.9 94.3	94.6 95.0	94.6 95.0	95.2 95.7	95.4 95.8	95.4 95.8	95.7 96.2	95.7 96.2	96.2 96.7	96.9 97.3
IVV 500 400	35.4 35.4	75.9 75.9	82.4 82.4	88.7 88.7	92.7 92.8	93.4 93.5	94.6 94.8	95.4 95.6	95.4 95.6	96.0 96.3	96.2 96.4	96.2 96.4	96.6 96.8	96.6 96.8	97.1 97.3	97.7 97.9
IVV 300 200	35.4 35.4	76.1 76.1	82.6 82.6	88.9 88.9	92.9 92.9	93.6 93.7	94.9 95.0	95.8 96.0	95.8 96.0	96.5 96.6	96.7 97.0	96.7 97.1	97.1 97.5	97.1 97.5	97.6 98.0	98.3 98.7
IVV 100 0	35.4 35.4	76.1 76.1	82.6 82.6	88.9 88.9	92.9 92.9	93.7 93.7	95.0 95.0	96.0 96.0	96.0 96.0	96.8 96.8	97.1 97.1	97.1 97.1	97.7 97.7	97.7 97.7	98.1 98.1	98.8 100.0

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 SMYRNA TENNESSEE/SEWART AFB

42-46.49-66

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

C600-6800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	77.2	44.8	48.4	52.0	54.7	55.3	56.8	58.1	58.1	58.6	58.9	58.9	59.1	59.1	59.3	59.7
IV 18000	28.8	48.0	51.8	55.8	58.7	59.4	61.0	62.5	62.5	63.1	63.4	63.4	63.6	63.6	63.9	64.3
IV 16000	28.8	48.1	51.9	55.9	58.8	59.5	61.1	62.6	62.6	63.2	63.5	63.5	63.7	63.7	64.0	64.4
IV 14000	29.2	48.5	52.3	56.3	59.2	59.9	61.5	63.0	63.0	63.6	63.9	63.9	64.1	64.1	64.4	64.8
IV 12000	29.7	49.3	53.2	57.2	60.2	60.8	62.5	63.9	64.0	64.5	64.8	64.8	65.0	65.0	65.3	65.7
IV 10000	30.5	50.8	54.7	58.7	61.7	62.3	64.0	65.4	65.5	66.0	66.3	66.3	66.5	66.5	66.8	67.2
IV 9000	31.7	52.4	56.3	60.4	63.3	64.0	65.6	67.1	67.2	67.7	68.1	68.1	68.3	68.3	68.5	69.0
IV 8000	32.4	53.7	57.7	61.8	64.7	65.4	67.0	68.6	68.6	69.2	69.5	69.5	69.7	69.7	70.0	70.4
IV 7000	33.3	55.5	59.8	64.0	67.1	67.7	69.5	71.0	71.1	71.7	72.0	72.0	72.2	72.2	72.5	72.9
IV 6000	34.0	56.9	61.3	65.7	68.9	69.6	71.4	73.0	73.1	73.7	74.1	74.1	74.2	74.2	74.5	74.9
IV 5000	34.6	57.9	62.5	67.0	70.3	71.0	72.8	74.4	74.5	75.1	75.5	75.5	75.6	75.6	75.9	76.3
IV 4500	35.5	60.6	65.3	69.9	73.4	74.0	75.8	77.4	77.5	78.2	78.5	78.5	78.7	78.7	79.0	79.4
IV 4000	35.9	61.2	65.9	70.6	74.1	74.8	76.6	78.2	78.3	79.0	79.3	79.3	79.5	79.5	79.8	80.2
IV 3500	36.5	62.2	67.0	71.8	75.3	76.0	77.9	79.5	79.6	80.2	80.6	80.6	80.8	80.8	81.1	81.5
IV 3000	37.3	63.7	68.7	73.4	77.0	77.7	79.7	81.3	81.3	82.0	82.4	82.4	82.6	82.6	82.8	83.3
IV 2500	37.6	64.5	69.6	74.5	78.2	78.8	80.8	82.4	82.5	83.2	83.5	83.5	83.7	83.7	84.0	84.4
IV 2000	38.5	66.1	71.2	76.3	80.1	80.7	82.7	84.4	84.5	85.2	85.6	85.6	85.8	85.8	86.2	86.6
IV 1800	39.1	67.4	72.7	77.8	81.7	82.4	84.5	86.2	86.3	87.0	87.5	87.5	87.7	87.7	88.0	88.4
IV 1500	39.3	67.8	73.1	78.2	82.1	82.8	84.9	86.6	86.7	87.4	87.9	87.9	88.1	88.1	88.4	88.8
IV 1200	40.1	69.2	74.6	79.9	83.9	84.7	86.9	88.7	88.8	89.5	89.9	89.9	90.1	90.1	90.5	90.9
IV 1000	40.5	70.7	76.1	81.7	85.8	86.7	88.9	90.8	90.9	91.6	92.1	92.1	92.2	92.2	92.6	93.0
IV 900	40.6	70.9	76.3	82.2	86.4	87.3	89.8	91.7	91.9	92.6	93.0	93.0	93.2	93.2	93.5	94.0
IV 800	40.6	71.1	76.6	82.7	86.9	87.8	90.3	92.2	92.4	93.1	93.6	93.6	93.8	93.8	94.2	94.6
IV 700	40.6	71.4	77.0	83.1	87.4	88.3	90.8	92.8	92.9	93.7	94.2	94.2	94.4	94.4	94.8	95.2
IV 600	40.6	71.6	77.2	83.4	87.6	88.6	91.3	93.3	93.4	94.2	94.8	94.8	95.0	95.0	95.3	95.7
IV 500	40.6	71.8	77.4	83.5	87.8	88.9	91.7	93.8	94.0	95.0	95.7	95.7	95.9	95.9	96.2	96.6
IV 400	40.7	71.9	77.7	83.9	88.3	89.4	92.4	94.6	94.8	95.7	96.4	96.4	96.7	96.7	97.0	97.4
IV 300	40.7	72.0	77.7	83.9	88.4	89.5	92.5	94.7	94.9	96.2	97.1	97.1	97.3	97.3	97.7	98.3
IV 200	40.7	72.0	77.7	83.9	88.4	89.5	92.5	94.7	94.9	96.2	97.1	97.2	97.5	97.5	97.8	98.9
IV 100	40.7	72.0	77.7	83.9	88.4	89.5	92.5	94.7	94.9	96.2	97.1	97.2	97.5	97.5	97.9	99.1
IV 0	40.8	72.0	77.7	84.0	88.5	89.5	92.6	94.8	95.0	96.3	97.1	97.2	97.5	97.5	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2139



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	42.7	55.8	57.5	58.5	58.9	58.9	59.1	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.4
IV 20000	46.1	60.8	62.7	63.9	64.6	64.6	65.0	65.1	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3
IV 18000	46.1	60.8	62.7	63.9	64.6	64.6	65.0	65.1	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3
IV 16000	46.3	61.0	62.9	64.1	64.7	64.8	65.2	65.3	65.3	65.4	65.4	65.4	65.5	65.5	65.5	65.5
IV 14000	47.1	61.9	63.9	65.1	65.8	65.8	66.2	66.3	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.5
IV 12000	48.3	63.5	65.5	66.8	67.4	67.5	67.8	67.9	67.9	68.1	68.1	68.1	68.1	68.1	68.1	68.2
IV 10000	52.1	65.7	67.7	69.0	69.6	69.7	70.0	70.1	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.4
IV 9000	52.7	66.6	68.6	69.9	70.5	70.6	71.1	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.4
IV 8000	51.8	68.5	71.7	72.3	72.7	72.8	73.3	73.4	73.4	73.5	73.5	73.5	73.6	73.6	73.6	73.6
IV 7000	52.6	70.1	72.4	73.8	74.5	74.6	75.1	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.5
IV 6000	53.3	71.7	73.4	74.9	75.7	75.8	76.4	76.5	76.5	76.6	76.6	76.6	76.7	76.7	76.7	76.7
IV 5000	54.6	72.7	75.2	76.7	77.5	77.7	78.4	78.4	78.4	78.6	78.6	78.6	78.7	78.7	78.7	78.7
IV 4500	55.1	73.4	75.8	77.4	78.1	78.3	79.0	79.1	79.1	79.3	79.3	79.3	79.3	79.3	79.3	79.4
IV 4000	55.9	74.7	77.2	78.8	79.5	79.7	80.4	80.5	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.8
IV 3500	56.8	76.0	78.5	80.1	80.9	81.1	81.8	81.9	81.9	82.0	82.0	82.0	82.1	82.1	82.1	82.1
IV 3000	58.0	77.6	80.1	81.8	82.6	82.8	83.5	83.6	83.6	83.8	83.8	83.8	83.8	83.8	83.8	83.9
IV 2500	58.9	79.0	81.6	83.4	84.2	84.4	85.2	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.6
IV 2000	60.3	82.1	85.0	86.9	88.0	88.3	89.0	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.4
IV 1800	61.6	82.7	85.6	87.5	88.6	88.9	89.7	89.8	89.8	89.9	89.9	89.9	90.0	90.0	90.0	90.0
IV 1500	61.3	84.5	87.5	89.4	90.6	91.0	91.8	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.2
IV 1200	61.8	86.0	89.1	91.3	92.6	92.9	93.8	94.0	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.4
IV 1000	62.1	86.6	89.9	92.1	93.7	94.0	95.0	95.2	95.3	95.5	95.5	95.5	95.6	95.6	95.6	95.6
IV 900	62.2	87.0	90.4	92.7	94.3	94.6	95.6	95.8	95.9	96.1	96.1	96.1	96.2	96.2	96.2	96.2
IV 800	62.3	87.4	90.8	93.1	94.8	95.1	96.1	96.4	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.8
IV 700	62.3	87.8	91.4	93.6	95.3	95.7	96.7	96.9	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.4
IV 600	62.3	88.0	91.5	94.0	95.7	96.1	97.1	97.5	97.5	97.9	97.9	98.0	98.0	98.0	98.0	98.1
IV 500	62.3	88.0	91.6	94.1	95.9	96.3	97.6	98.0	98.1	98.6	98.6	98.6	98.7	98.7	98.7	98.7
IV 400	62.3	88.1	91.8	94.3	96.2	96.6	97.9	98.4	98.5	99.1	99.1	99.2	99.2	99.2	99.2	99.3
IV 300	62.3	88.1	91.8	94.4	96.2	96.6	98.0	98.6	98.7	99.4	99.5	99.6	99.6	99.6	99.7	99.7
IV 200	62.3	88.1	91.8	94.4	96.2	96.6	98.1	98.6	98.7	99.5	99.6	99.7	99.7	99.8	99.9	100.0
IV 100	62.3	88.1	91.8	94.4	96.2	96.6	98.1	98.6	98.7	99.5	99.7	99.7	99.8	99.8	99.9	100.0
IV 0	62.3	88.1	91.8	94.4	96.2	96.6	98.1	98.6	98.7	99.5	99.7	99.7	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

OCT  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	49.9 55.4	57.7 64.7	58.2 65.2	58.2 65.2	58.2 65.3	58.2 65.3	58.3 65.4	58.3 65.4	58.3 65.4	58.4 65.5	58.4 65.5	58.4 65.5	58.4 65.5	58.4 65.5	58.4 65.5	58.4 65.5
IVIV 18000 16000	55.7 55.9	65.7 65.2	65.5 65.8	65.5 65.8	65.6 65.9	65.6 65.9	65.7 65.9	65.7 65.9	65.7 65.9	65.7 66.0	65.7 66.0	65.7 66.0	65.7 66.0	65.7 66.0	65.7 66.0	65.7 66.0
IVIV 14000 12000	56.5 58.2	65.9 67.8	66.5 68.4	66.5 68.4	66.6 68.5	66.6 68.5	66.7 68.6	66.7 68.6	66.7 68.6	66.7 68.7	66.7 68.7	66.7 68.7	66.7 68.7	66.7 68.7	66.7 68.7	66.7 68.7
IVIV 10000 9000	59.7 62.1	69.5 70.1	70.1 70.8	70.1 70.8	70.2 70.9	70.2 70.9	70.3 71.0	70.3 71.0	70.3 71.0	70.3 71.0	70.3 71.0	70.3 71.0	70.3 71.0	70.3 71.0	70.3 71.0	70.3 71.0
IVIV 8000 7000	61.5 62.7	71.8 73.3	72.5 74.0	72.6 74.1	72.7 74.2	72.7 74.2	72.8 74.3	72.8 74.3	72.8 74.3	72.8 74.4	72.8 74.4	72.8 74.4	72.8 74.4	72.8 74.4	72.8 74.4	72.8 74.4
IVIV 6000 5000	63.5 65.3	74.4 76.7	75.1 77.5	75.3 77.8	75.4 77.9	75.4 77.9	75.5 78.1	75.5 78.1	75.5 78.1	75.6 78.1	75.6 78.1	75.6 78.1	75.6 78.1	75.6 78.1	75.6 78.1	75.6 78.1
IVIV 4500 4000	66.3 67.8	77.8 80.2	78.7 80.9	79.0 81.1	79.1 81.3	79.1 81.3	79.3 81.5	79.3 81.5	79.3 81.5	79.3 81.5	79.3 81.5	79.3 81.5	79.3 81.5	79.3 81.5	79.3 81.5	79.3 81.5
IVIV 3500 3000	69.7 71.1	82.3 84.7	83.2 85.6	83.4 85.9	83.6 86.1	83.6 86.1	83.8 86.2	83.8 86.2	83.8 86.2	83.8 86.3	83.8 86.3	83.8 86.3	83.8 86.3	83.8 86.3	83.8 86.3	83.8 86.3
IVIV 2500 2000	72.6 73.7	87.3 89.5	88.4 90.7	88.6 91.0	88.9 91.4	88.9 91.4	89.0 91.6	89.1 91.7	89.1 91.7	89.1 91.8	89.1 91.8	89.1 91.8	89.1 91.8	89.1 91.8	89.1 91.8	89.1 91.8
IVIV 1800 1500	73.9 74.4	89.9 91.3	91.2 92.8	91.4 93.2	91.9 93.6	91.9 93.6	92.1 93.9	92.2 94.0	92.2 94.0	92.2 94.1	92.2 94.1	92.2 94.1	92.2 94.1	92.2 94.1	92.2 94.1	92.2 94.1
IVIV 1200 1000	74.8 74.9	92.8 93.3	94.7 95.4	95.2 96.0	95.7 96.7	95.7 96.7	96.0 97.0	96.1 97.1	96.1 97.1	96.2 97.1	96.2 97.1	96.2 97.1	96.2 97.1	96.2 97.1	96.2 97.1	96.2 97.1
IVIV 900 800	75.0 75.0	93.7 93.7	95.8 96.0	96.4 96.5	97.1 97.5	97.1 97.5	97.4 97.8	97.5 97.9	97.5 97.9	97.5 98.0	97.5 98.0	97.5 98.0	97.5 98.0	97.5 98.0	97.5 98.0	97.5 98.0
IVIV 700 600	75.1 75.1	93.9 93.9	96.2 96.2	96.7 96.8	97.7 97.8	97.8 97.8	98.1 98.2	98.3 98.4	98.3 98.4	98.3 98.5	98.3 98.5	98.3 98.5	98.3 98.5	98.3 98.5	98.3 98.5	98.3 98.5
IVIV 500 400	75.1 75.1	94.0 94.0	96.3 96.3	97.1 97.2	98.2 98.4	98.3 98.5	98.8 99.1	99.0 99.3	99.0 99.3	99.1 99.5	99.1 99.5	99.1 99.5	99.2 99.5	99.2 99.5	99.2 99.5	99.2 99.5
IVIV 300 200	75.1 75.1	94.0 94.0	96.3 96.3	97.2 97.2	98.5 98.5	98.6 98.6	99.3 99.7	99.7 99.7	99.7 99.7	99.9 100.0	99.9 100.0	99.9 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IVIV 100 0	75.1 75.1	94.0 94.0	96.3 96.3	97.2 97.2	98.5 98.5	98.6 98.6	99.3 99.7	99.7 99.7	99.7 99.7	99.9 100.0	99.9 100.0	99.9 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 2138

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46.49-66  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	53.8	61.1	61.4	61.5	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 20000	60.2	69.5	69.8	69.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 18000	60.5	69.7	70.0	70.1	70.2	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 16000	60.9	70.2	70.5	70.6	70.7	70.7	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 14000	61.3	70.9	71.2	71.3	71.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 12000	63.1	73.0	73.3	73.4	73.5	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
IV 10000	64.6	74.9	75.3	75.4	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IV 9000	65.4	75.8	76.1	76.3	76.3	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 8000	66.5	77.4	77.7	77.9	77.9	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 7000	67.8	79.1	79.5	79.7	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
IV 6000	68.5	80.1	80.6	80.7	80.8	80.8	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 5000	70.1	82.7	82.7	82.9	83.2	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
IV 4500	70.9	83.3	83.9	84.1	84.3	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 4000	72.2	85.2	85.9	86.3	86.6	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 3500	73.3	86.8	87.6	88.1	88.4	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 3000	74.8	89.2	90.1	90.7	91.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 2500	75.4	90.3	91.4	92.1	92.5	92.5	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 2000	75.9	91.1	92.5	93.4	93.9	94.0	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 1800	76.0	91.4	92.8	93.7	94.3	94.3	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1500	76.3	92.4	93.9	94.9	95.5	95.5	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 1200	76.4	92.8	94.4	95.4	96.0	96.1	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 1000	76.4	93.3	94.9	96.2	96.8	96.8	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 900	76.5	93.4	95.0	96.2	97.0	97.1	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2
IV 800	76.5	93.4	95.1	96.4	97.3	97.4	98.3	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 700	76.5	93.4	95.2	96.5	97.4	97.5	98.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7
IV 600	76.5	93.5	95.2	96.5	97.6	97.7	98.6	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 500	76.6	93.6	95.4	96.7	97.8	97.9	98.9	99.1	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.4
IV 400	76.6	93.6	95.4	96.8	97.9	98.0	99.1	99.3	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6
IV 300	76.6	93.6	95.4	96.8	98.0	98.1	99.3	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
IV 200	76.6	93.6	95.4	96.8	98.0	98.1	99.3	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
IV 100	76.6	93.6	95.4	96.8	98.0	98.1	99.3	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
IV 0	76.6	93.6	95.4	96.8	98.0	98.1	99.3	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46.49-66  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	50.7	67.1	68.3	68.8	69.1	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 20000	53.3	71.2	72.4	72.9	73.2	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 18000	53.4	71.4	72.6	73.1	73.4	73.4	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 16000	53.8	71.9	73.1	73.6	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
IV 14000	54.5	72.9	74.2	74.7	74.9	75.0	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
IV 12000	55.2	74.1	75.4	76.0	76.2	76.3	76.4	76.4	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 10000	56.5	76.1	77.4	78.1	78.3	78.4	78.5	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 9000	56.9	76.9	78.2	78.9	79.1	79.1	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 8000	57.9	78.1	79.5	80.2	80.5	80.5	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 7000	58.6	79.4	80.8	81.5	81.8	81.9	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 6000	59.3	80.7	82.3	83.1	83.4	83.4	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
IV 5000	60.9	82.9	84.6	85.4	85.6	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IV 4500	61.4	84.2	85.9	86.8	87.1	87.1	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4
IV 4000	62.4	85.8	87.6	88.7	89.1	89.1	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 3500	63.1	87.1	88.9	90.0	90.4	90.4	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 3000	63.4	88.1	90.1	91.4	91.7	91.8	91.9	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1
IV 2500	63.7	89.2	91.3	92.8	93.4	93.4	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 2000	64.0	90.2	92.3	94.1	94.7	94.7	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1800	64.0	90.4	92.5	94.4	95.0	95.1	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 1500	64.1	91.1	93.2	95.2	95.8	95.9	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 1200	64.2	91.6	93.8	95.9	96.8	96.9	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 1000	64.2	91.7	93.9	96.1	97.1	97.2	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 900	64.2	91.7	93.9	96.2	97.2	97.3	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 800	64.2	91.7	94.1	96.3	97.4	97.5	98.1	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 700	64.2	91.9	94.2	96.5	97.6	97.7	98.4	98.5	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7
IV 600	64.2	92.0	94.4	96.7	97.8	97.9	98.8	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 500	64.2	92.0	94.4	96.7	97.8	98.0	98.9	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 400	64.2	92.0	94.4	96.7	97.9	98.0	99.1	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	64.2	92.0	94.6	96.9	98.0	98.2	99.3	99.5	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9
IV 200	64.2	92.1	94.6	96.9	98.1	98.2	99.4	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	64.2	92.1	94.6	96.9	98.1	98.2	99.4	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	64.2	92.1	94.6	96.9	98.1	98.2	99.4	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46.49-66  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	44.5	68.1	70.3	71.9	72.4	72.4	72.6	72.6	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.9
≥ 20000	46.3	70.5	72.3	74.4	74.9	74.9	75.1	75.2	75.2	75.3	75.3	75.4	75.4	75.4	75.4	75.5
IVIV 18000	46.4	70.6	73.0	74.5	75.3	75.1	75.3	75.3	75.3	75.4	75.4	75.5	75.5	75.5	75.5	75.6
16000	46.4	70.7	73.1	74.6	75.1	75.2	75.4	75.4	75.4	75.5	75.5	75.6	75.6	75.6	75.6	75.7
IVIV 14000	47.3	71.9	74.3	75.8	76.3	76.4	76.6	76.6	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.9
12000	48.1	73.4	75.9	77.5	78.3	78.3	78.2	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.5	78.6
IVIV 10000	49.2	74.8	77.3	78.9	79.4	79.5	79.7	79.7	79.7	79.8	79.8	79.9	79.9	79.9	79.9	80.0
9000	49.5	75.5	78.0	79.6	80.1	80.2	80.4	80.4	80.4	80.5	80.5	80.6	80.6	80.6	80.6	80.7
IVIV 8000	50.6	77.3	79.8	81.4	81.9	82.0	82.2	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.5	82.6
7000	51.3	79.1	81.6	83.2	83.8	83.9	84.1	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.4	84.5
IVIV 6000	51.7	80.2	82.9	84.6	85.3	85.3	85.5	85.5	85.5	85.7	85.7	85.8	85.8	85.8	85.8	85.9
5000	52.9	81.8	84.6	86.5	87.2	87.2	87.4	87.5	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.8
IVIV 4500	53.4	83.0	85.9	87.9	88.6	88.6	88.8	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.2
4000	53.8	84.1	87.0	89.1	89.9	89.9	90.2	90.2	90.2	90.4	90.4	90.5	90.5	90.5	90.5	90.6
IVIV 3500	53.9	84.5	87.5	89.7	90.5	90.5	90.7	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.1	91.2
3000	54.3	85.6	88.6	90.8	91.7	91.8	92.0	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.4	92.5
IVIV 2500	54.7	86.4	89.5	91.7	92.7	92.8	93.0	93.1	93.1	93.3	93.3	93.4	93.4	93.4	93.4	93.5
2000	55.1	87.4	90.6	92.8	93.9	94.0	94.3	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.7	94.8
IVIV 1800	55.1	87.7	90.8	93.2	94.3	94.4	94.7	94.8	94.8	95.0	95.0	95.0	95.0	95.0	95.1	95.2
1500	55.1	88.5	91.7	94.2	95.3	95.4	95.7	95.8	95.8	96.0	96.0	96.1	96.1	96.1	96.1	96.2
IVIV 1200	55.1	89.0	92.2	94.8	96.1	96.2	96.6	96.7	96.7	96.9	96.9	96.9	96.9	96.9	97.0	97.1
1000	55.1	89.2	92.5	95.2	96.5	96.6	97.0	97.1	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.4
IVIV 900	55.1	89.3	92.5	95.2	96.5	96.6	97.0	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.4	97.5
800	55.1	89.4	92.6	95.3	96.7	96.8	97.1	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.6	97.7
IVIV 700	55.1	89.5	92.8	95.5	96.9	97.0	97.4	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.9	98.0
600	55.1	89.7	93.0	95.8	97.3	97.4	97.9	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.5	98.6
IVIV 500	55.1	89.8	93.2	96.1	97.5	97.7	98.2	98.5	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.8
400	55.1	89.9	93.4	96.3	97.8	97.9	98.5	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.3	99.3
IVIV 300	55.1	89.9	93.4	96.3	97.9	98.0	98.6	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.5	99.6
200	55.1	89.9	93.4	96.3	97.9	98.0	98.6	99.0	99.0	99.4	99.4	99.5	99.5	99.5	99.6	99.7
IVIV 100	55.1	89.9	93.4	96.3	97.9	98.0	98.6	99.0	99.0	99.4	99.4	99.5	99.5	99.5	99.6	99.7
0	55.1	89.9	93.4	96.3	97.9	98.0	98.6	99.0	99.0	99.4	99.4	99.5	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 2138

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

42-46.49-66

YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	8.8 20.5	47.8 51.6	51.2 55.3	54.5 58.7	55.7 59.9	55.9 60.1	56.6 60.9	56.9 61.2	56.9 61.2	57.1 61.3	57.1 61.4	57.1 61.4	57.2 61.4	57.2 61.4	57.3 61.5	58.0 62.3
IVIV 18000 16000	20.5 30.7	51.7 52.3	55.3 55.6	58.8 59.1	60.0 60.3	60.2 60.5	60.9 61.2	61.2 61.5	61.2 61.5	61.4 61.7	61.4 61.7	61.4 61.7	61.5 61.8	61.5 61.8	61.6 61.9	62.3 62.6
IVIV 14000 12000	31.1 31.7	53.1 54.2	56.8 58.0	60.3 61.4	61.6 62.7	61.8 62.9	62.7 63.8	63.0 64.1	63.0 64.1	63.1 64.2	63.2 64.3	63.2 64.3	63.2 64.4	63.2 64.4	63.3 64.5	64.1 65.3
IVIV 10000 9000	32.6 33.2	55.6 56.4	59.4 60.2	62.8 63.7	64.1 65.0	64.3 65.2	65.3 66.1	65.6 66.4	65.6 66.4	65.7 66.6	65.8 66.6	65.8 66.6	65.8 66.7	65.8 66.7	65.9 66.7	66.7 67.6
IVIV 8000 7000	34.1 35.2	58.2 60.4	62.1 64.4	65.5 68.1	66.8 69.5	67.0 69.6	68.0 70.6	68.3 70.9	68.3 70.9	68.5 71.1	68.5 71.1	68.5 71.1	68.6 71.2	68.6 71.2	68.7 71.3	69.5 72.1
IVIV 6000 5000	35.6 36.5	61.6 64.1	65.6 68.2	69.5 72.1	70.9 73.6	71.3 73.8	72.0 74.8	72.3 75.1	72.3 75.1	72.5 75.4	72.5 75.4	72.5 75.4	72.6 75.5	72.6 75.5	72.7 75.6	73.5 76.4
IVIV 4500 4000	37.1 37.6	65.7 67.8	69.9 72.1	73.9 76.4	75.4 78.0	75.6 78.2	76.6 79.2	76.8 79.5	76.8 79.5	77.2 79.9	77.2 79.9	77.3 79.9	77.3 80.0	77.3 80.0	77.4 80.1	78.3 80.9
IVIV 3500 3000	38.0 38.6	69.0 70.6	73.5 75.4	77.8 79.7	79.5 81.4	79.7 81.6	80.7 82.7	81.1 83.2	81.1 83.2	81.5 83.6	81.5 83.7	81.5 83.7	81.6 83.7	81.6 83.7	81.7 83.8	82.5 84.6
IVIV 2500 2000	38.9 39.2	71.7 73.4	76.6 78.4	81.2 83.3	83.0 85.3	83.2 85.5	84.3 86.7	84.7 87.1	84.8 87.1	85.2 87.6	85.3 87.6	85.3 87.6	85.3 87.7	85.3 87.7	85.4 87.8	86.2 88.6
IVIV 1800 1500	39.2 39.7	73.9 75.9	79.1 81.2	84.0 86.0	86.1 88.3	86.3 88.5	87.4 89.7	87.9 90.1	87.9 90.1	88.4 90.6	88.4 90.6	88.4 90.6	88.4 90.7	88.4 90.7	88.5 90.8	89.4 91.6
IVIV 1200 1000	40.1 40.1	77.3 77.9	82.6 83.4	87.9 88.7	90.3 91.2	90.5 91.4	91.6 92.6	92.1 93.0	92.1 93.1	92.6 93.5	92.6 93.6	92.6 93.6	92.7 93.6	92.7 93.6	92.8 93.7	93.6 94.5
IVIV 900 800	40.1 40.1	78.1 78.3	83.6 83.8	88.9 89.2	91.6 92.0	91.8 92.2	93.1 93.5	93.6 94.0	93.7 94.1	94.1 94.5	94.1 94.5	94.2 94.5	94.2 94.5	94.2 94.6	94.3 94.7	95.1 95.5
IVIV 700 600	40.1 40.2	78.4 78.6	84.0 84.2	89.6 89.9	92.4 92.9	92.6 93.1	94.0 94.7	94.5 95.2	94.5 95.2	95.0 95.7	95.0 95.7	95.0 95.7	95.1 95.7	95.1 95.7	95.2 95.8	96.0 96.7
IVIV 500 400	40.2 40.2	78.8 78.9	84.6 84.7	90.3 90.5	93.6 93.8	93.9 94.2	95.4 95.8	95.9 96.3	95.9 96.4	96.4 96.9	96.5 97.1	96.5 97.1	96.5 97.1	96.5 97.1	96.6 97.2	97.5 98.1
IVIV 300 200	40.2 40.2	79.0 79.0	84.7 84.7	90.6 90.6	94.2 94.2	94.7 94.8	96.4 96.6	97.0 97.3	97.1 97.3	97.6 98.0	97.8 98.2	97.8 98.2	98.0 98.4	98.0 98.4	98.1 98.6	98.9 99.6
IVIV 100 0	40.2 40.2	79.0 79.0	84.7 84.7	90.6 90.6	94.2 94.2	94.8 94.8	96.6 96.6	97.3 97.3	97.4 97.4	98.1 98.1	98.4 98.4	98.4 98.4	98.6 98.6	98.6 98.6	98.8 98.8	99.8 100.0

TOTAL NUMBER OF OBSERVATIONS 2069

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

030G-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	25.6	43.9	47.6	51.0	52.9	52.9	53.7	54.1	54.3	54.6	54.7	54.7	54.8	54.9	55.3	56.2
IV 18000	27.1	46.7	50.5	54.1	56.3	56.1	56.9	57.4	57.6	57.9	58.0	58.0	58.1	58.2	58.6	59.5
IV 16000	27.1	46.8	50.7	54.3	56.3	56.4	57.1	57.6	57.8	58.2	58.2	58.2	58.4	58.4	58.8	59.7
IV 14000	27.6	47.8	51.8	55.4	57.4	57.5	58.4	58.8	59.0	59.4	59.4	59.4	59.6	59.6	60.0	60.9
IV 12000	28.3	49.4	53.4	57.1	59.2	59.3	60.1	60.7	60.9	61.2	61.3	61.3	61.4	61.4	61.8	62.8
IV 10000	28.8	50.9	54.9	58.6	60.7	60.9	61.7	62.3	62.5	62.8	62.9	62.9	63.0	63.0	63.4	64.3
IV 9000	29.1	51.3	55.4	59.1	61.3	61.5	62.5	63.1	63.2	63.5	63.6	63.6	63.7	63.8	64.2	65.1
IV 8000	30.2	53.4	57.8	61.6	63.9	64.1	65.1	65.6	65.8	66.1	66.2	66.2	66.3	66.4	66.9	67.8
IV 7000	31.1	55.3	59.9	63.8	66.1	66.3	67.3	67.8	68.0	68.4	68.4	68.4	68.6	68.6	69.1	70.1
IV 6000	31.5	56.4	61.0	64.9	67.3	67.5	68.5	69.1	69.2	69.6	69.6	69.6	69.8	69.8	70.3	71.2
IV 5000	32.1	58.7	63.4	67.6	70.2	70.6	71.5	72.1	72.3	72.7	72.8	72.8	72.9	72.9	73.4	74.3
IV 4500	32.8	59.7	64.6	69.0	71.8	72.1	73.2	73.8	74.0	74.4	74.4	74.4	74.6	74.6	75.1	76.0
IV 4000	33.5	61.2	66.5	71.2	74.0	74.3	75.4	76.0	76.2	76.6	76.7	76.7	76.8	76.9	77.3	78.3
IV 3500	33.8	62.5	68.0	72.9	75.6	76.0	77.1	77.8	78.1	78.5	78.5	78.5	78.6	78.7	79.2	80.1
IV 3000	34.2	64.1	69.8	74.6	77.4	77.8	79.0	79.7	80.0	80.3	80.4	80.4	80.5	80.6	81.1	82.0
IV 2500	34.6	65.7	71.5	76.7	79.7	80.1	81.3	82.0	82.3	82.7	82.7	82.7	82.9	82.9	83.4	84.3
IV 2000	35.1	67.9	74.2	79.6	82.9	83.4	84.7	85.4	85.7	86.1	86.1	86.1	86.3	86.3	86.8	87.8
IV 1800	35.3	68.6	74.8	80.2	83.6	84.1	85.4	86.1	86.4	86.8	86.9	86.9	87.0	87.1	87.5	88.5
IV 1500	35.6	70.2	76.8	82.3	85.6	86.1	87.5	88.2	88.5	88.9	89.0	89.0	89.1	89.2	89.7	90.6
IV 1200	35.9	71.6	78.4	84.0	87.4	88.0	89.4	90.1	90.4	90.9	90.9	90.9	91.1	91.1	91.6	92.6
IV 1000	36.1	72.5	79.5	85.4	89.1	89.6	91.2	91.9	92.2	92.7	92.7	92.7	92.9	92.9	93.4	94.3
IV 900	36.1	72.7	79.8	85.7	89.4	90.0	91.5	92.3	92.5	93.0	93.0	93.0	93.2	93.2	93.7	94.7
IV 800	36.1	72.8	80.0	85.8	89.6	90.1	91.7	92.5	92.7	93.3	93.4	93.4	93.5	93.6	94.1	95.0
IV 700	36.1	72.8	80.0	85.9	89.7	90.2	91.9	92.6	92.9	93.5	93.6	93.6	93.7	93.8	94.3	95.2
IV 600	36.1	72.8	80.2	86.4	90.3	90.9	92.7	93.4	93.7	94.5	94.6	94.6	94.8	94.8	95.3	96.3
IV 500	36.1	72.9	80.3	86.8	90.9	91.5	93.4	94.2	94.4	95.3	95.3	95.3	95.5	95.6	96.0	97.1
IV 400	36.1	72.9	80.4	87.1	91.2	91.8	93.8	94.5	94.8	95.9	95.9	95.9	96.1	96.2	96.7	97.7
IV 300	36.1	73.0	80.6	87.3	91.7	92.3	94.3	95.2	95.6	96.8	96.8	96.8	97.1	97.1	97.6	98.6
IV 200	36.1	73.0	80.6	87.3	91.7	92.4	94.6	95.4	95.8	97.1	97.1	97.1	97.5	97.5	98.1	99.2
IV 100	36.1	73.0	80.6	87.3	91.7	92.4	94.6	95.4	95.8	97.3	97.4	97.4	97.8	97.8	98.4	99.5
IV 0	36.1	73.0	80.6	87.3	91.7	92.4	94.6	95.4	95.8	97.3	97.4	97.4	97.9	97.9	98.6	99.6

TOTAL NUMBER OF OBSERVATIONS 2070

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SKYRNA TENNESSEE/SEHART AFB  
STATION NAME

42-46,49-66  
YEARS

NOV  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1600-2800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	22.2	32.8	35.9	38.3	40.9	41.7	44.3	45.1	45.2	45.9	46.2	46.3	46.7	46.7	47.0	47.5
IV 20000	24.4	36.2	39.5	42.3	45.3	46.1	48.5	49.8	49.9	50.7	51.1	51.1	51.5	51.5	51.8	52.4
IV 18000	24.5	36.5	39.8	42.6	45.6	46.4	48.7	50.0	50.1	51.0	51.4	51.4	51.9	51.9	52.2	52.7
IV 16000	24.7	37.0	40.3	43.2	46.2	47.0	49.3	50.6	50.7	51.6	52.0	52.0	52.5	52.5	52.8	53.3
IV 14000	25.4	38.4	41.4	44.3	47.3	48.3	50.6	51.9	52.0	52.9	53.3	53.3	53.8	53.8	54.1	54.6
IV 12000	26.2	39.6	43.1	46.2	49.4	50.3	52.7	54.1	54.2	55.1	55.5	55.5	55.9	55.9	56.2	56.8
IV 10000	26.9	40.8	44.3	47.5	50.7	51.7	54.2	55.6	55.7	56.5	56.9	57.0	57.4	57.4	57.7	58.3
IV 9000	27.2	41.6	45.1	48.4	51.7	52.8	55.2	56.6	56.7	57.6	58.0	58.1	58.5	58.5	58.7	59.4
IV 8000	28.5	44.0	47.6	50.9	54.3	55.4	57.9	59.3	59.4	60.4	60.8	60.8	61.3	61.3	61.5	62.2
IV 7000	30.1	47.1	50.8	54.3	57.7	58.8	61.5	63.0	63.1	64.1	64.5	64.5	65.0	65.0	65.3	65.9
IV 6000	30.9	48.6	52.5	56.0	59.5	60.6	63.4	64.9	65.0	65.9	66.3	66.4	66.8	66.8	67.1	67.7
IV 5000	32.0	50.6	54.8	58.6	62.2	63.3	66.3	68.0	68.1	69.1	69.5	69.5	70.0	70.0	70.2	70.9
IV 4500	32.3	51.4	55.7	59.8	63.5	64.7	67.7	69.5	69.6	70.7	71.1	71.1	71.5	71.5	71.8	72.5
IV 4000	32.9	52.9	57.5	61.6	65.6	66.8	69.8	71.7	71.8	72.9	73.3	73.3	73.8	73.8	74.1	74.7
IV 3500	33.2	54.5	59.2	63.4	67.4	68.7	71.7	73.7	73.8	74.8	75.2	75.3	75.7	75.7	76.0	76.6
IV 3000	34.3	56.0	60.8	65.0	69.3	70.6	73.7	75.8	75.9	77.0	77.3	77.4	77.8	77.8	78.1	78.7
IV 2500	35.3	57.6	62.6	66.9	71.6	72.9	76.0	78.1	78.2	79.3	79.7	79.7	80.2	80.2	80.5	81.1
IV 2000	36.0	60.1	65.4	69.9	74.7	76.1	79.2	81.4	81.4	82.6	82.9	83.0	83.5	83.5	83.8	84.4
IV 1800	36.3	60.8	66.2	70.8	75.7	77.0	80.2	82.4	82.5	83.6	84.0	84.0	84.5	84.5	84.8	85.4
IV 1500	36.8	62.2	67.9	72.6	77.6	78.9	82.3	84.6	84.7	85.9	86.3	86.4	86.9	86.9	87.2	87.8
IV 1200	37.2	63.6	69.5	74.3	79.5	80.9	84.4	86.7	86.8	88.1	88.5	88.6	89.0	89.0	89.3	90.0
IV 1000	37.3	64.9	71.0	75.9	81.3	82.7	86.3	88.6	88.7	90.1	90.5	90.6	91.1	91.1	91.4	92.1
IV 900	37.3	65.2	71.3	76.3	81.7	83.1	86.8	89.1	89.2	90.6	91.0	91.1	91.5	91.5	91.9	92.6
IV 800	37.3	65.3	71.5	76.5	82.1	83.5	87.3	89.7	89.8	91.3	91.6	91.7	92.2	92.2	92.6	93.2
IV 700	37.4	65.7	71.9	77.1	82.9	84.4	88.2	90.6	90.7	92.2	92.6	92.7	93.2	93.2	93.6	94.2
IV 600	37.4	66.0	72.4	77.5	83.6	85.2	89.1	91.6	91.7	93.3	93.8	93.9	94.5	94.5	94.9	95.6
IV 500	37.4	66.1	72.5	77.9	84.2	85.7	89.8	92.5	92.6	94.3	94.8	94.9	95.6	95.6	96.0	96.7
IV 400	37.4	66.2	72.6	78.1	84.6	86.3	90.4	93.2	93.3	95.3	95.8	95.9	96.6	96.6	97.1	97.7
IV 300	37.4	66.2	72.6	78.1	84.9	86.6	91.0	93.8	93.9	95.9	96.5	96.6	97.3	97.4	97.8	98.5
IV 200	37.4	66.2	72.6	78.1	84.9	86.6	91.0	93.9	94.0	96.1	96.7	96.9	97.6	97.7	98.2	99.0
IV 100	37.4	66.2	72.6	78.1	84.9	86.6	91.0	93.9	94.0	96.1	96.7	96.9	97.7	97.9	98.5	99.3
IV 0	37.4	66.2	72.6	78.1	84.9	86.6	91.0	93.9	94.0	96.1	96.7	96.9	97.8	98.0	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 2570



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	29.4	4.4	42.0	43.0	44.2	44.5	45.7	45.8	45.8	45.8	45.9	46.0	46.1	46.1	46.1	46.2
≥ 20000	33.3	45.7	47.5	48.9	50.1	50.5	51.7	51.8	51.9	52.0	52.1	52.2	52.3	52.3	52.4	52.5
IVV 18000	23.6	46.1	47.8	49.2	50.4	50.8	52.0	52.1	52.2	52.3	52.4	52.5	52.6	52.6	52.7	52.8
16000	33.7	46.2	48.0	49.3	50.6	50.9	52.2	52.3	52.3	52.4	52.5	52.6	52.8	52.8	52.8	52.9
IVV 14000	34.3	47.1	48.9	50.3	51.5	51.9	53.1	53.2	53.3	53.4	53.5	53.6	53.7	53.7	53.8	53.9
12000	35.7	48.8	50.6	52.0	53.3	53.7	54.9	55.0	55.1	55.2	55.3	55.4	55.5	55.5	55.6	55.7
IVV 10000	36.9	50.6	52.5	54.0	55.3	55.7	57.0	57.1	57.1	57.2	57.3	57.4	57.5	57.5	57.6	57.7
9000	37.5	51.5	53.4	54.9	56.2	56.6	57.9	58.0	58.0	58.1	58.2	58.3	58.5	58.5	58.5	58.6
IVV 8000	39.0	53.8	55.7	57.4	58.8	59.2	60.5	60.6	60.6	60.7	60.8	60.9	61.1	61.1	61.1	61.2
7000	40.3	56.2	58.2	60.0	61.4	61.8	63.1	63.2	63.2	63.3	63.4	63.5	63.7	63.7	63.7	63.8
IVV 6000	41.0	57.5	59.7	61.4	62.9	63.3	64.6	64.7	64.7	64.8	64.9	65.0	65.2	65.2	65.2	65.3
5000	42.2	61.1	62.5	64.2	65.7	66.2	67.4	67.6	67.6	67.7	67.8	67.9	68.1	68.1	68.1	68.2
IVV 4500	42.9	61.2	63.7	65.5	67.1	67.5	68.7	68.9	68.9	69.0	69.1	69.2	69.4	69.4	69.4	69.5
4000	43.5	62.9	65.5	67.3	68.9	69.4	70.6	70.8	70.8	70.9	71.0	71.1	71.3	71.3	71.3	71.4
IVV 3500	44.9	65.0	67.5	69.6	71.4	71.9	73.2	73.4	73.4	73.5	73.6	73.7	73.9	73.9	73.9	74.0
3000	46.2	67.0	69.7	71.9	73.7	74.2	75.6	75.7	75.7	75.8	75.9	76.0	76.2	76.2	76.2	76.3
IVV 2500	48.0	71.1	72.9	75.3	77.2	77.7	79.2	79.3	79.4	79.5	79.6	79.7	79.9	79.9	80.0	80.0
2000	49.6	73.1	76.1	78.6	80.7	81.4	82.9	83.0	83.1	83.2	83.3	83.4	83.6	83.6	83.7	83.8
IVV 1800	49.9	74.1	77.0	79.6	81.7	82.4	84.0	84.2	84.3	84.4	84.5	84.6	84.8	84.8	84.9	85.0
1500	50.9	76.3	79.6	82.6	84.8	85.5	87.1	87.4	87.6	87.7	87.8	87.9	88.1	88.1	88.3	88.4
IVV 1200	51.2	77.7	81.1	84.6	87.0	87.8	89.5	89.8	90.0	90.1	90.2	90.3	90.5	90.5	90.7	90.8
1000	51.3	78.4	81.9	85.6	88.1	88.9	90.9	91.3	91.4	91.6	91.7	91.8	92.1	92.1	92.2	92.4
IVV 900	51.4	78.7	82.5	86.3	88.9	89.8	91.9	92.3	92.5	92.7	92.8	92.9	93.1	93.1	93.3	93.4
800	51.4	79.2	83.0	87.0	89.8	90.8	93.1	93.5	93.7	94.0	94.1	94.2	94.4	94.4	94.5	94.7
IVV 700	51.5	79.6	83.5	87.7	90.6	91.7	94.2	94.6	94.7	95.0	95.1	95.3	95.5	95.5	95.7	95.8
600	51.5	79.9	83.7	88.0	91.4	92.5	95.0	95.6	95.8	96.2	96.4	96.5	96.8	96.8	97.0	97.1
IVV 500	51.5	80.0	83.8	88.3	91.8	93.1	95.7	96.4	96.7	97.2	97.4	97.5	97.8	97.8	98.0	98.1
400	51.5	80.1	84.0	88.4	92.1	93.5	96.2	97.0	97.3	97.8	98.0	98.2	98.5	98.5	98.6	98.7
IVV 300	51.5	80.1	84.0	88.4	92.1	93.5	96.2	97.2	97.6	98.2	98.5	98.6	98.9	98.9	99.0	99.2
200	51.5	80.1	84.0	88.4	92.1	93.5	96.3	97.3	97.7	98.5	98.7	98.9	99.3	99.3	99.5	99.8
IVV 100	51.5	80.1	84.0	88.4	92.1	93.5	96.3	97.3	97.7	98.5	98.8	99.0	99.4	99.4	99.6	99.9
0	51.5	80.1	84.0	88.4	92.1	93.5	96.3	97.3	97.7	98.5	98.8	99.0	99.4	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 2070

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827

SMYRNA TENNESSEL/SPWART AFB

42-46,49-66

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	38.7	46.6	47.3	47.7	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
IV 18000	45.8	55.3	56.1	56.4	57.1	57.2	57.2	57.2	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 16000	46.2	55.8	56.5	56.8	57.6	57.6	57.7	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8
IV 14000	47.1	56.8	57.6	57.9	58.6	58.7	58.7	58.7	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9
IV 12000	48.7	58.9	59.8	60.1	60.9	60.9	60.9	60.9	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1
IV 10000	50.2	61.8	61.8	62.2	62.9	62.9	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1
IV 9000	50.7	61.5	62.5	62.9	63.6	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8
IV 8000	51.7	62.8	63.8	64.2	64.9	65.0	65.0	65.0	65.0	65.2	65.2	65.2	65.2	65.2	65.2	65.2
IV 7000	53.4	65.2	66.3	66.7	67.4	67.5	67.5	67.5	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 6000	54.1	66.2	67.4	67.8	68.5	68.5	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IV 5000	55.3	68.7	69.4	69.9	70.7	70.8	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 4500	56.3	69.6	71.1	71.6	72.5	72.5	72.6	72.6	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8
IV 4000	57.2	71.2	72.8	73.4	74.2	74.3	74.4	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 3500	58.7	73.5	75.0	75.8	76.7	76.8	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 3000	59.4	75.5	77.1	78.0	79.0	79.2	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 2500	62.5	79.0	80.8	81.8	82.8	82.8	83.0	83.1	83.1	83.2	83.2	83.2	83.2	83.3	83.3	83.3
IV 2000	64.2	82.7	84.7	85.6	86.8	86.9	87.0	87.3	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV 1800	64.8	83.6	85.6	86.7	87.8	87.9	88.1	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
IV 1500	65.1	85.0	87.2	88.4	89.9	90.1	90.2	90.4	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9
IV 1200	65.2	85.7	88.4	89.9	91.5	91.6	91.9	92.2	92.2	92.4	92.4	92.4	92.4	92.5	92.5	92.5
IV 1000	65.3	86.6	89.4	91.0	93.0	93.2	93.5	93.8	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1
IV 900	65.4	86.8	89.7	91.3	93.4	93.5	93.8	94.2	94.2	94.4	94.4	94.4	94.4	94.4	94.5	94.5
IV 800	65.4	87.2	90.1	91.9	94.1	94.2	94.7	95.1	95.2	95.4	95.4	95.4	95.5	95.5	95.5	95.5
IV 700	65.4	87.3	90.3	92.1	94.4	94.7	95.1	95.6	95.7	95.9	95.9	95.9	95.9	95.9	96.0	96.0
IV 600	65.4	87.5	90.6	92.6	95.1	95.4	96.2	96.8	96.8	97.2	97.3	97.3	97.6	97.6	97.6	97.6
IV 500	65.4	87.6	90.8	92.8	95.6	95.9	96.9	97.4	97.5	98.4	98.4	98.4	98.7	98.7	98.7	98.7
IV 400	65.4	87.7	90.8	92.8	95.7	96.1	97.3	97.9	98.0	98.9	99.0	99.0	99.3	99.3	99.3	99.3
IV 300	65.4	87.7	90.8	92.8	95.7	96.2	97.4	98.0	98.1	99.1	99.2	99.2	99.5	99.5	99.6	99.6
IV 200	65.4	87.7	90.8	92.8	95.7	96.2	97.4	98.2	98.3	99.3	99.3	99.5	99.8	99.8	100.0	100.0
IV 100	65.4	87.7	90.8	92.8	95.7	96.2	97.4	98.2	98.3	99.3	99.3	99.5	99.8	99.9	100.0	100.0
IV 0	65.4	87.7	90.8	92.8	95.7	96.2	97.4	98.2	98.3	99.3	99.3	99.5	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2069

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

42-46, 49-66

YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	41.9	49.7	51.3	51.8	51.1	51.1	51.2	51.2	51.2	51.3	51.4	51.4	51.4	51.4	51.4	51.4
IV 20000	49.1	58.4	59.1	59.7	61.1	61.1	61.2	61.2	61.2	61.3	61.4	61.4	61.4	61.4	61.4	61.4
IV 18000	49.6	59.0	59.7	60.3	61.8	61.8	61.9	61.9	61.9	61.9	61.1	61.1	61.1	61.1	61.1	61.1
IV 16000	49.9	59.3	60.2	60.6	61.1	61.1	61.2	61.2	61.2	61.3	61.4	61.4	61.4	61.4	61.4	61.4
IV 14000	50.2	60.6	61.4	62.2	62.6	62.6	62.7	62.7	62.7	62.8	62.9	62.9	62.9	62.9	62.9	62.9
IV 12000	51.9	62.3	63.2	63.9	64.4	64.4	64.5	64.6	64.6	64.6	64.8	64.8	64.8	64.8	64.8	64.8
IV 10000	53.4	64.1	64.9	65.6	66.1	66.1	66.2	66.3	66.3	66.3	66.5	66.5	66.5	66.5	66.5	66.5
IV 9000	54.2	64.9	65.8	66.6	67.2	67.2	67.3	67.3	67.3	67.4	67.5	67.5	67.5	67.5	67.5	67.5
IV 8000	55.1	66.6	67.6	68.4	69.1	69.1	69.1	69.1	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3
IV 7000	56.4	68.8	69.9	70.7	71.3	71.3	71.4	71.4	71.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6
IV 6000	57.4	71.5	71.6	72.5	73.1	73.1	73.2	73.2	73.2	73.3	73.4	73.4	73.4	73.4	73.4	73.4
IV 5000	58.6	72.2	73.5	74.4	75.3	75.3	75.4	75.5	75.5	75.5	75.7	75.7	75.7	75.7	75.7	75.7
IV 4500	59.4	73.3	74.6	75.5	76.4	76.5	76.6	76.6	76.6	76.7	76.8	76.8	76.8	76.8	76.8	76.8
IV 4000	60.7	75.3	76.6	77.7	78.6	78.6	78.7	78.8	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.0
IV 3500	62.1	77.3	78.7	79.8	80.7	80.7	80.8	80.9	80.9	80.9	81.1	81.1	81.1	81.1	81.1	81.1
IV 3000	63.1	79.5	81.4	82.5	83.5	83.7	83.8	83.8	83.8	83.9	84.1	84.1	84.1	84.1	84.1	84.1
IV 2500	64.4	82.1	83.9	85.2	86.5	86.6	86.7	86.8	86.8	86.8	87.0	87.0	87.0	87.1	87.1	87.1
IV 2000	65.1	83.6	85.8	87.2	88.6	88.7	88.9	88.9	88.9	89.0	89.2	89.2	89.2	89.3	89.3	89.3
IV 1800	65.5	84.6	87.1	88.6	90.1	90.1	90.2	90.3	90.3	90.4	90.6	90.6	90.6	90.6	90.6	90.6
IV 1500	65.7	85.7	88.3	90.1	91.6	91.9	92.1	92.2	92.2	92.3	92.5	92.5	92.6	92.6	92.6	92.6
IV 1200	65.8	86.7	89.4	91.2	92.9	93.2	93.5	93.7	93.7	93.8	94.0	94.0	94.1	94.1	94.1	94.1
IV 1000	65.8	87.1	89.8	91.6	93.5	93.9	94.3	94.4	94.4	94.7	94.9	94.9	95.0	95.0	95.0	95.0
IV 900	65.8	87.4	90.1	92.2	94.2	94.7	95.2	95.4	95.4	95.6	95.8	95.8	95.9	95.9	95.9	95.9
IV 800	65.8	87.5	90.4	92.7	94.7	95.3	95.7	96.0	96.0	96.2	96.4	96.4	96.5	96.5	96.5	96.5
IV 700	65.8	87.5	90.4	92.7	95.0	95.7	96.2	96.6	96.6	97.0	97.1	97.1	97.2	97.2	97.2	97.2
IV 600	65.8	87.6	90.6	92.9	95.4	96.1	96.8	97.3	97.3	97.7	97.9	97.9	98.1	98.1	98.1	98.1
IV 500	65.8	87.6	90.6	93.0	95.6	96.3	97.1	97.7	97.7	98.2	98.4	98.4	98.6	98.6	98.6	98.6
IV 400	65.8	87.6	90.6	93.1	95.7	96.6	97.5	98.3	98.3	98.8	99.1	99.1	99.3	99.3	99.3	99.3
IV 300	65.8	87.6	90.6	93.2	95.9	96.8	97.8	98.5	98.6	99.1	99.4	99.4	99.6	99.6	99.6	99.6
IV 200	65.8	87.6	90.6	93.2	95.9	96.8	97.8	98.5	98.6	99.1	99.4	99.4	99.7	99.7	99.7	99.7
IV 100	65.8	87.6	90.6	93.2	95.9	96.8	97.8	98.6	98.6	99.2	99.5	99.5	99.8	99.9	99.9	99.9
IV 0	65.8	87.6	90.6	93.2	95.9	96.8	97.8	98.6	98.6	99.2	99.5	99.5	99.8	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 2070

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46.49-66  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1890-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	49.4	53.9	55.4	56.2	57.3	57.3	57.5	57.6	57.6	57.7	57.8	57.8	57.8	57.8	57.8	57.8
≥ 20000	42.5	58.4	60.0	61.1	62.1	62.4	62.6	62.7	62.7	62.8	62.9	62.9	62.9	62.9	62.9	62.9
IVIV 18000	42.7	58.7	60.3	61.4	62.4	62.8	62.9	63.0	63.0	63.1	63.2	63.2	63.2	63.2	63.2	63.2
16000	42.9	58.9	60.6	61.7	62.8	63.1	63.3	63.4	63.4	63.5	63.6	63.6	63.6	63.6	63.6	63.6
IVIV 14000	43.5	60.2	61.9	63.0	64.1	64.5	64.7	64.9	64.9	65.0	65.1	65.1	65.1	65.1	65.1	65.1
12000	44.6	62.4	64.2	65.3	66.4	66.8	67.0	67.2	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4
IVIV 10000	45.7	64.1	65.9	67.1	68.2	68.6	68.8	69.0	69.0	69.1	69.2	69.2	69.2	69.2	69.2	69.2
9000	46.7	65.1	66.9	68.0	69.1	69.5	69.7	69.9	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1
IVIV 8000	47.1	67.0	68.8	70.1	71.2	71.6	71.8	72.0	72.0	72.1	72.2	72.2	72.2	72.2	72.2	72.2
7000	47.9	68.9	70.8	72.1	73.2	73.6	73.8	74.0	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2
IVIV 6000	48.5	70.0	72.1	73.3	74.6	75.1	75.3	75.5	75.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7
5000	49.8	72.9	75.2	76.7	78.0	78.5	78.6	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0
IVIV 4500	50.3	73.7	76.1	77.5	78.8	79.4	79.6	79.8	79.8	79.9	80.0	80.0	80.0	80.0	80.0	80.0
4000	51.3	75.6	78.4	79.9	81.2	81.7	81.9	82.1	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IVIV 3500	51.9	77.1	80.1	81.6	82.9	83.4	83.7	84.0	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3
3000	52.4	78.0	81.8	83.4	84.7	85.3	85.5	85.8	85.9	86.1	86.1	86.1	86.1	86.1	86.2	86.2
IVIV 2500	52.8	80.8	84.0	85.6	87.1	87.7	88.0	88.3	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.7
2000	53.2	82.9	86.2	88.1	89.0	90.3	90.6	90.9	91.0	91.3	91.3	91.3	91.3	91.3	91.4	91.4
IVIV 1800	53.2	83.4	86.8	88.7	90.4	90.9	91.3	91.6	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.1
1500	53.5	84.3	87.8	90.0	91.8	92.3	92.7	93.1	93.2	93.5	93.6	93.6	93.6	93.6	93.6	93.7
IVIV 1200	53.6	85.1	88.9	91.2	93.1	93.7	94.1	94.5	94.6	95.0	95.1	95.1	95.1	95.1	95.2	95.2
1000	53.6	85.4	89.3	91.6	93.8	94.4	94.8	95.3	95.4	95.8	95.9	95.9	95.9	95.9	96.0	96.0
IVIV 900	53.6	85.7	89.7	92.0	94.3	94.9	95.4	95.9	96.0	96.5	96.5	96.5	96.5	96.5	96.6	96.7
800	53.6	85.7	89.8	92.2	94.6	95.3	95.8	96.3	96.4	96.9	96.9	96.9	96.9	96.9	97.0	97.1
IVIV 700	53.6	85.9	89.9	92.4	94.8	95.5	96.0	96.5	96.6	97.1	97.1	97.1	97.1	97.1	97.2	97.3
600	53.6	86.0	90.3	92.9	95.4	96.0	96.8	97.3	97.4	98.0	98.1	98.1	98.1	98.1	98.2	98.3
IVIV 500	53.6	86.1	90.4	93.0	95.7	96.4	97.5	98.1	98.2	98.8	98.8	98.8	98.8	98.9	99.0	99.0
400	53.6	86.1	90.4	93.0	95.7	96.5	97.6	98.3	98.5	99.2	99.3	99.3	99.3	99.4	99.5	99.5
IVIV 300	53.6	86.1	90.4	93.0	95.7	96.6	97.6	98.3	98.5	99.3	99.4	99.4	99.4	99.5	99.6	99.6
200	53.6	86.1	90.4	93.0	95.8	96.6	97.7	98.4	98.6	99.3	99.6	99.6	99.6	99.7	99.8	99.8
IVIV 100	53.6	86.1	90.4	93.0	95.8	96.6	97.7	98.4	98.6	99.3	99.6	99.6	99.6	99.7	99.9	99.9
0	53.6	86.1	90.4	93.0	95.8	96.6	97.7	98.4	98.6	99.3	99.6	99.6	99.6	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 270

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13877  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

NGV  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	33.8	52.6	54.9	56.7	57.9	58.1	58.6	58.6	58.7	58.7	58.8	58.8	58.9	58.9	59.0	59.2
≥ 20000	36.4	56.9	59.5	61.5	62.9	63.7	63.5	63.6	63.6	63.7	63.8	63.8	63.9	63.9	63.9	64.1
IV 18000	36.5	57.1	59.7	61.7	63.0	63.2	63.7	63.8	63.8	63.9	64.0	64.0	64.1	64.1	64.1	64.3
IV 16000	36.8	57.5	60.2	62.2	63.5	63.7	64.2	64.3	64.3	64.3	64.4	64.4	64.5	64.5	64.6	64.8
IV 14000	37.1	58.5	61.2	63.1	64.5	64.7	65.2	65.4	65.4	65.5	65.6	65.6	65.7	65.7	65.7	65.9
IV 12000	38.3	60.7	62.8	64.8	66.1	66.3	66.8	67.0	67.1	67.1	67.2	67.2	67.3	67.3	67.3	67.5
IV 10000	38.9	61.5	64.3	66.5	67.9	68.1	68.6	68.7	68.8	68.8	68.9	68.9	69.0	69.0	69.1	69.3
IV 9000	39.2	62.3	65.1	67.3	68.6	68.8	69.3	69.5	69.6	69.6	69.7	69.7	69.8	69.8	69.9	70.0
IV 8000	40.3	64.5	67.3	69.6	70.9	71.1	71.6	71.8	71.8	71.9	72.0	72.0	72.1	72.1	72.1	72.3
IV 7000	41.0	66.3	69.1	71.4	72.7	72.9	73.4	73.6	73.6	73.7	73.8	73.8	73.9	73.9	73.9	74.1
IV 6000	41.4	67.4	70.3	72.6	74.0	74.2	74.6	74.8	74.9	74.9	75.0	75.0	75.1	75.1	75.2	75.4
IV 5000	42.9	70.6	73.8	76.3	77.8	78.0	78.5	78.7	78.8	78.8	78.9	78.9	79.0	79.0	79.1	79.3
IV 4500	43.5	72.1	75.3	77.9	79.4	79.7	80.1	80.4	80.4	80.5	80.6	80.6	80.7	80.7	80.7	80.9
IV 4000	44.2	73.8	77.1	79.7	81.4	81.6	82.1	82.4	82.4	82.5	82.6	82.6	82.7	82.7	82.7	82.9
IV 3500	44.9	75.7	79.2	81.7	83.5	83.8	84.3	84.5	84.5	84.6	84.7	84.7	84.8	84.8	84.8	85.0
IV 3000	45.1	76.7	80.3	83.0	84.8	85.1	85.7	85.9	85.9	86.0	86.1	86.1	86.2	86.2	86.2	86.4
IV 2500	45.4	77.9	81.6	84.6	86.5	86.8	87.3	87.5	87.5	87.6	87.7	87.7	87.8	87.8	87.9	88.1
IV 2000	45.7	79.5	83.4	86.7	88.6	88.9	89.5	89.8	89.8	89.9	90.0	90.0	90.0	90.0	90.1	90.3
IV 1800	45.7	79.9	83.8	87.1	89.0	89.3	90.0	90.2	90.2	90.3	90.4	90.4	90.5	90.5	90.5	90.7
IV 1500	46.0	81.1	85.6	88.9	91.1	91.4	92.2	92.5	92.5	92.6	92.7	92.7	92.8	92.8	92.8	93.0
IV 1200	46.3	82.0	86.9	90.3	92.7	93.0	93.8	94.1	94.1	94.2	94.3	94.3	94.3	94.3	94.4	94.6
IV 1000	46.4	82.5	87.5	91.1	93.5	93.8	94.6	94.9	94.9	95.0	95.1	95.1	95.2	95.2	95.2	95.4
IV 900	46.4	82.8	87.8	91.4	94.0	94.3	95.1	95.4	95.4	95.5	95.6	95.6	95.7	95.7	95.7	95.9
IV 800	46.4	82.9	87.9	91.7	94.3	94.6	95.4	95.7	95.7	95.8	95.9	95.9	96.0	96.0	96.0	96.2
IV 700	46.4	83.2	88.3	92.2	94.8	95.2	96.0	96.3	96.3	96.5	96.6	96.6	96.7	96.7	96.8	97.0
IV 600	46.4	83.4	88.6	92.5	95.3	95.6	96.5	96.8	96.8	97.1	97.1	97.1	97.2	97.2	97.3	97.5
IV 500	46.4	83.6	88.8	92.8	95.8	96.2	97.3	97.6	97.7	98.0	98.1	98.1	98.2	98.2	98.3	98.5
IV 400	46.4	83.6	89.1	93.1	96.3	96.7	97.9	98.2	98.3	98.6	98.8	98.8	98.9	98.9	98.9	99.2
IV 300	46.4	83.6	89.1	93.1	96.3	96.8	98.0	98.4	98.5	98.9	99.0	99.0	99.2	99.2	99.2	99.5
IV 200	46.4	83.6	89.1	93.1	96.3	96.8	98.0	98.4	98.5	99.0	99.2	99.2	99.4	99.4	99.5	99.7
IV 100	46.4	83.6	89.1	93.1	96.3	96.8	98.0	98.4	98.5	99.0	99.2	99.2	99.4	99.4	99.5	99.8
IV 0	46.4	83.6	89.1	93.1	96.3	96.8	98.0	98.4	98.5	99.0	99.2	99.2	99.4	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 2076

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	20.3	36.7	39.1	41.8	42.9	43.1	43.6	43.8	43.8	44.1	44.1	44.1	44.3	44.3	44.4	44.6
≥ 20000	21.7	39.9	42.8	45.5	46.6	46.8	47.5	47.7	47.7	47.8	47.9	47.9	48.1	48.2	48.3	48.6
IVIV 18000	21.9	41.2	43.0	45.8	46.9	47.1	47.8	47.9	47.9	48.1	48.2	48.2	48.4	48.5	48.6	48.8
IVIV 16000	22.1	41.6	43.4	46.2	47.3	47.4	48.1	48.3	48.3	48.5	48.6	48.6	48.8	48.8	49.0	49.2
IVIV 14000	22.5	41.6	44.6	47.4	48.5	48.6	49.4	49.6	49.6	49.8	49.9	49.9	50.0	50.1	50.2	50.5
IVIV 12000	23.1	43.1	46.2	49.3	50.2	50.4	51.2	51.4	51.4	51.6	51.7	51.7	51.9	51.9	52.1	52.3
IVIV 10000	23.2	44.3	47.6	50.4	51.7	51.8	52.8	53.0	53.0	53.2	53.3	53.3	53.5	53.5	53.6	53.9
IVIV 9000	23.5	44.7	48.2	50.9	52.2	52.4	53.3	53.6	53.6	53.7	53.8	53.8	54.0	54.1	54.2	54.4
IVIV 8000	23.9	45.8	49.3	52.1	53.4	53.6	54.5	54.7	54.7	54.9	55.0	55.0	55.2	55.2	55.4	55.6
IVIV 7000	24.7	48.2	52.2	55.0	56.4	56.5	57.4	57.7	57.7	57.9	58.0	58.0	58.2	58.2	58.5	58.7
IVIV 6000	25.5	50.1	54.2	57.2	58.7	58.8	59.7	60.0	60.0	60.1	60.2	60.2	60.5	60.5	60.8	61.0
IVIV 5000	26.1	52.5	56.9	59.9	61.6	61.7	62.6	62.9	62.9	63.0	63.1	63.1	63.4	63.4	63.7	63.9
IVIV 4500	26.4	53.8	58.3	61.4	63.2	63.3	64.3	64.5	64.5	64.7	64.8	64.8	65.0	65.1	65.3	65.5
IVIV 4000	26.7	55.6	60.4	63.6	65.6	65.7	66.7	66.9	66.9	67.1	67.2	67.2	67.4	67.4	67.7	67.9
IVIV 3500	27.4	57.3	62.3	65.6	67.7	67.8	68.8	69.0	69.0	69.2	69.3	69.3	69.5	69.6	69.8	70.0
IVIV 3000	27.8	59.4	64.6	68.1	70.2	70.3	71.4	71.6	71.6	71.8	71.9	71.9	72.1	72.2	72.4	72.6
IVIV 2500	28.9	62.1	67.7	71.2	73.6	73.8	74.8	75.1	75.1	75.4	75.5	75.5	75.7	75.8	76.0	76.2
IVIV 2000	30.1	66.7	72.8	76.6	79.3	79.5	80.5	80.9	80.9	81.2	81.3	81.3	81.5	81.6	81.8	82.0
IVIV 1800	30.2	67.3	73.6	77.5	80.1	80.3	81.5	81.8	81.8	82.1	82.2	82.2	82.5	82.5	82.7	83.0
IVIV 1500	30.4	69.3	75.8	79.8	82.8	83.0	84.5	84.8	84.8	85.2	85.3	85.3	85.5	85.5	85.8	86.0
IVIV 1200	30.6	70.3	77.1	82.1	85.3	85.6	87.3	87.7	87.7	88.2	88.3	88.3	88.5	88.5	88.8	89.0
IVIV 1000	30.7	70.8	77.8	83.1	86.8	87.2	89.1	89.8	89.8	90.3	90.4	90.4	90.6	90.6	90.9	91.1
IVIV 900	30.7	71.2	78.3	83.8	87.5	88.0	89.9	90.6	90.6	91.2	91.3	91.3	91.5	91.5	91.8	92.0
IVIV 800	30.8	71.7	79.0	84.6	88.5	89.1	91.1	91.8	91.9	92.4	92.5	92.5	92.8	92.8	93.0	93.3
IVIV 700	30.8	71.8	79.3	85.1	89.4	90.0	92.1	92.8	92.9	93.5	93.6	93.6	93.9	93.9	94.2	94.4
IVIV 600	30.9	71.8	79.3	85.4	89.9	90.5	92.6	93.5	93.5	94.2	94.4	94.4	94.6	94.7	94.9	95.2
IVIV 500	30.8	72.0	79.5	85.6	90.2	90.7	93.1	94.1	94.3	95.1	95.4	95.4	95.7	95.7	96.0	96.3
IVIV 400	30.8	72.0	79.6	85.7	90.6	91.2	93.6	94.6	94.8	95.7	96.0	96.0	96.4	96.4	96.6	96.9
IVIV 300	30.8	72.0	79.6	85.8	90.8	91.6	94.2	95.2	95.4	96.4	96.8	96.8	97.1	97.2	97.5	97.8
IVIV 200	30.8	72.2	79.8	86.0	91.0	91.8	94.5	95.6	95.8	96.8	97.5	97.6	98.1	98.1	98.5	98.8
IVIV 100	30.8	72.2	79.8	86.0	91.0	91.8	94.5	95.6	95.8	97.0	97.7	97.8	98.4	98.4	98.7	99.1
IVIV 0	30.8	72.2	79.8	86.0	91.0	91.8	94.5	95.6	95.8	97.1	97.8	98.0	98.6	98.6	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 2138

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

C300-C504  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	18.4	35.6	38.7	41.1	42.7	42.9	43.4	43.7	43.7	43.7	43.8	43.9	43.9	44.1	44.3	44.5
≥ 20000	19.2	38.6	41.7	44.3	46.2	46.4	47.0	47.3	47.3	47.3	47.4	47.5	47.5	47.7	47.9	48.1
IVV 18000	20.1	39.2	42.3	44.9	46.8	47.0	47.6	47.9	47.9	47.9	48.0	48.1	48.2	48.3	48.5	48.7
IVV 16000	20.1	39.4	42.4	45.2	46.9	47.1	47.7	48.0	48.0	48.1	48.1	48.2	48.3	48.4	48.7	48.9
IVV 14000	20.3	40.2	43.3	45.9	47.8	48.0	48.6	48.9	48.9	49.0	49.0	49.1	49.2	49.4	49.6	49.8
IVV 12000	20.5	41.2	44.3	46.9	48.8	49.2	49.6	49.9	49.9	50.0	50.0	50.1	50.2	50.4	50.6	50.8
IVV 10000	21.0	43.1	46.1	48.8	50.7	50.9	51.6	51.9	51.9	51.9	52.0	52.1	52.2	52.3	52.5	52.7
IVV 9000	21.2	43.6	46.7	49.4	51.2	51.5	52.1	52.5	52.5	52.5	52.5	52.6	52.7	52.9	53.1	53.3
IVV 8000	21.7	45.1	48.3	51.0	52.8	53.1	53.8	54.1	54.1	54.2	54.2	54.3	54.4	54.6	54.8	55.1
IVV 7000	22.3	46.6	50.2	53.3	54.9	55.2	55.9	56.3	56.3	56.3	56.4	56.5	56.6	56.8	57.0	57.2
IVV 6000	23.4	48.5	52.5	55.4	57.3	57.6	58.3	58.7	58.7	58.7	58.8	58.9	59.0	59.1	59.4	59.6
IVV 5000	23.9	50.5	54.7	57.6	59.6	59.8	60.6	61.0	61.0	61.0	61.1	61.2	61.3	61.4	61.7	61.9
IVV 4500	24.4	51.8	56.0	59.0	61.0	61.3	62.0	62.4	62.4	62.5	62.5	62.6	62.7	62.9	63.1	63.3
IVV 4000	24.5	53.1	57.6	60.7	62.8	63.1	63.9	64.3	64.3	64.3	64.4	64.5	64.6	64.7	65.0	65.2
IVV 3500	24.8	54.4	59.2	62.5	64.6	64.9	65.7	66.1	66.1	66.1	66.2	66.2	66.4	66.5	66.8	66.9
IVV 3000	25.3	56.2	61.6	65.0	67.4	67.7	68.7	69.1	69.1	69.1	69.1	69.2	69.4	69.5	69.8	69.9
IVV 2500	26.4	58.5	64.3	67.8	70.3	70.6	71.6	71.9	71.9	72.0	72.0	72.1	72.3	72.4	72.7	72.8
IVV 2000	27.1	62.4	68.4	72.4	75.1	75.5	76.5	76.9	76.9	76.9	77.0	77.0	77.2	77.4	77.6	77.8
IVV 1800	27.3	63.4	69.7	73.8	76.5	76.9	77.9	78.3	78.3	78.3	78.4	78.4	78.6	78.8	79.0	79.2
IVV 1500	28.1	66.3	73.0	77.8	80.8	81.2	82.3	82.8	82.8	82.8	82.9	83.0	83.2	83.3	83.6	83.8
IVV 1200	28.1	68.3	75.3	81.1	84.4	84.8	85.9	86.5	86.5	86.6	86.7	86.8	87.0	87.1	87.4	87.6
IVV 1000	28.2	68.8	76.3	82.4	86.1	86.5	88.0	88.7	88.7	88.8	89.0	89.1	89.2	89.4	89.7	90.0
IVV 900	28.2	69.2	76.7	82.9	86.6	87.1	88.6	89.5	89.5	89.7	89.8	89.9	90.1	90.3	90.6	90.9
IVV 800	28.3	69.6	77.1	83.7	87.5	88.0	89.6	90.6	90.6	90.9	91.0	91.1	91.4	91.5	91.8	92.1
IVV 700	28.3	69.8	77.6	84.2	88.2	88.7	90.6	91.7	91.8	92.1	92.2	92.3	92.6	92.7	93.0	93.3
IVV 600	28.3	69.9	77.8	84.6	88.9	89.4	91.5	92.7	92.8	93.1	93.3	93.4	93.6	93.8	94.2	94.5
IVV 500	28.3	70.1	77.9	84.8	89.3	89.9	92.2	93.5	93.6	94.2	94.3	94.5	94.8	95.0	95.4	95.7
IVV 400	28.3	70.1	77.9	84.9	89.8	90.6	92.9	94.4	94.5	95.2	95.4	95.5	95.9	96.0	96.5	96.8
IVV 300	28.3	70.1	78.0	85.0	90.0	90.8	93.4	95.1	95.0	95.7	96.1	96.3	96.6	96.8	97.3	97.7
IVV 200	28.3	70.1	78.0	85.1	90.2	91.0	93.5	95.1	95.2	96.2	96.8	97.0	97.4	97.5	98.0	98.4
IVV 100	28.3	70.1	78.0	85.1	90.2	91.0	93.5	95.2	95.3	96.5	97.1	97.3	97.7	97.8	98.5	98.9
IVV 0	28.3	70.1	78.0	85.1	90.2	91.0	93.5	95.2	95.3	96.6	97.2	97.4	97.8	97.9	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827 STATION SMYRNA TENNESSEE/SEWART AFB

42-46,49-66 YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	16.8	29.7	31.6	33.6	35.3	35.3	36.4	36.7	36.7	37.2	37.4	37.4	37.4	37.4	37.5	37.9
IV 20000	18.6	32.5	35.6	38.1	40.1	40.2	41.4	41.8	41.8	42.5	42.7	42.7	42.8	42.8	43.0	43.4
IV 18000	18.7	32.6	35.7	38.2	40.2	40.3	41.6	41.9	42.0	42.7	42.9	42.9	43.0	43.0	43.2	43.6
IV 16000	18.7	33.1	36.1	38.7	40.7	40.8	42.1	42.4	42.5	43.2	43.4	43.4	43.5	43.5	43.7	44.1
IV 14000	18.9	33.5	36.7	39.4	41.4	41.6	42.8	43.2	43.3	44.1	44.3	44.3	44.4	44.4	44.5	44.9
IV 12000	19.2	35.2	38.4	41.4	43.5	43.7	45.0	45.4	45.4	46.4	46.6	46.6	46.7	46.7	46.8	47.3
IV 10000	20.5	37.4	40.7	43.8	46.0	46.1	47.4	47.9	47.9	48.9	49.1	49.1	49.2	49.2	49.4	49.8
IV 9000	20.8	37.8	41.1	44.2	46.4	46.5	47.8	48.3	48.3	49.3	49.5	49.5	49.6	49.6	49.8	50.2
IV 8000	21.6	39.6	43.1	46.2	48.6	48.9	50.2	50.6	50.7	51.6	51.8	51.8	52.0	52.0	52.1	52.5
IV 7000	22.4	41.5	45.0	48.3	50.7	51.1	52.4	52.9	53.0	54.0	54.2	54.2	54.3	54.3	54.5	54.9
IV 6000	23.1	42.6	46.2	49.5	51.9	52.3	53.8	54.4	54.4	55.4	55.6	55.6	55.8	55.8	55.9	56.3
IV 5000	23.7	44.3	48.1	51.4	53.9	54.2	55.8	56.4	56.4	57.5	57.7	57.7	57.8	57.8	58.0	58.4
IV 4500	24.0	45.3	49.1	52.5	54.9	55.3	56.8	57.4	57.5	58.5	58.7	58.7	58.9	58.9	59.0	59.4
IV 4000	24.6	46.6	50.8	54.3	56.9	57.2	59.0	59.6	59.6	60.7	61.0	61.0	61.1	61.1	61.2	61.7
IV 3500	25.1	47.9	52.2	55.8	58.4	58.8	60.5	61.1	61.2	62.3	62.6	62.6	62.7	62.7	62.8	63.3
IV 3000	26.3	49.9	54.3	58.4	61.2	61.5	63.4	64.0	64.1	65.3	65.5	65.5	65.7	65.7	65.8	66.2
IV 2500	27.7	52.1	56.8	61.2	64.0	64.3	66.2	67.0	67.0	68.3	68.5	68.5	68.7	68.7	68.9	69.3
IV 2000	28.6	54.6	59.8	64.7	68.0	68.4	70.8	71.6	71.6	72.9	73.2	73.2	73.4	73.4	73.5	73.9
IV 1800	28.8	56.3	61.7	66.7	70.1	70.5	72.9	73.8	73.8	75.1	75.4	75.4	75.5	75.5	75.7	76.1
IV 1500	29.5	58.9	64.6	70.2	73.9	74.4	77.1	78.2	78.3	79.6	79.9	79.9	80.2	80.2	80.4	80.8
IV 1200	29.7	60.7	67.1	73.4	77.3	77.8	80.8	81.9	82.0	83.4	83.7	83.8	84.1	84.1	84.3	84.8
IV 1000	29.9	61.9	69.2	75.9	80.5	81.1	84.3	85.5	85.5	87.0	87.4	87.5	87.8	87.8	88.1	88.5
IV 900	29.9	62.3	69.7	76.5	81.2	81.8	85.0	86.2	86.3	87.8	88.3	88.3	88.8	88.8	89.1	89.5
IV 800	29.9	62.5	70.2	77.4	82.4	83.1	86.7	88.0	88.0	89.7	90.3	90.3	90.8	90.8	91.1	91.5
IV 700	29.9	62.6	70.5	77.7	82.8	83.5	87.3	88.8	88.9	90.6	91.3	91.4	92.0	92.0	92.3	92.7
IV 600	29.9	62.9	70.9	78.4	83.8	84.6	88.6	90.3	90.4	92.2	93.0	93.1	93.8	93.8	94.1	94.5
IV 500	29.9	63.0	71.0	78.8	84.3	85.1	89.3	91.3	91.4	93.5	94.5	94.5	95.2	95.2	95.5	96.0
IV 400	29.9	63.0	71.0	79.1	84.9	85.7	90.1	92.3	92.4	94.7	95.6	95.7	96.4	96.4	96.7	97.2
IV 300	29.9	63.0	71.0	79.1	84.9	85.8	90.5	92.7	92.8	95.2	96.3	96.4	97.2	97.2	97.6	98.1
IV 200	29.9	63.0	71.0	79.1	84.9	85.9	90.5	92.8	92.9	95.4	96.5	96.6	97.6	97.6	98.0	98.6
IV 100	29.9	63.0	71.0	79.1	84.9	85.9	90.5	92.8	92.9	95.5	96.6	96.7	97.7	97.7	98.1	99.0
IV 0	29.9	63.0	71.0	79.1	84.9	85.9	90.5	92.8	92.9	95.5	96.6	96.7	97.7	97.7	98.1	99.0

TOTAL NUMBER OF OBSERVATIONS 2139



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46-49-66  
YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2900-1102  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	31.4	31.2	32.8	33.9	34.6	34.8	35.1	35.2	35.2	35.4	35.5	35.5	35.5	35.5	35.6	35.7
≥ 20000	24.4	36.7	38.9	40.1	40.9	41.0	41.4	41.7	41.7	42.0	42.1	42.1	42.1	42.1	42.2	42.3
IVIV 18000	24.5	36.7	39.0	40.2	41.0	41.1	41.5	41.8	41.8	42.1	42.2	42.2	42.2	42.2	42.3	42.4
16000	24.6	36.9	39.2	40.4	41.2	41.3	41.7	42.0	42.0	42.3	42.4	42.4	42.4	42.4	42.4	42.5
IVIV 14000	24.8	37.4	39.7	41.0	41.8	41.9	42.3	42.6	42.6	42.9	43.0	43.0	43.0	43.0	43.1	43.2
12000	25.9	39.4	41.8	43.2	44.2	44.4	44.8	45.2	45.2	45.5	45.5	45.5	45.6	45.6	45.6	45.7
IVIV 10000	27.1	41.7	44.3	46.0	47.0	47.2	47.6	48.0	48.0	48.3	48.3	48.3	48.4	48.4	48.4	48.5
9000	27.5	42.2	44.8	46.5	47.6	47.8	48.2	48.6	48.6	49.0	49.1	49.1	49.1	49.1	49.2	49.3
IVIV 8000	29.0	44.9	47.6	49.4	50.6	50.8	51.2	51.6	51.6	52.0	52.1	52.1	52.1	52.1	52.2	52.3
7000	30.2	46.8	49.7	51.6	52.8	53.1	53.5	54.0	54.0	54.3	54.4	54.4	54.5	54.5	54.5	54.6
IVIV 6000	30.5	48.2	51.2	53.3	54.6	54.8	55.4	55.8	55.8	56.1	56.2	56.2	56.3	56.3	56.3	56.4
5000	31.6	50.1	53.3	55.4	56.8	57.0	57.5	57.9	57.9	58.3	58.4	58.4	58.4	58.4	58.5	58.6
IVIV 4500	32.0	51.3	54.7	56.8	58.2	58.4	58.9	59.4	59.4	59.7	59.8	59.8	59.9	59.9	59.9	60.0
4000	32.5	52.3	55.9	58.2	59.7	59.9	60.4	61.1	61.1	61.5	61.6	61.6	61.7	61.7	61.7	61.8
IVIV 3500	33.3	53.7	57.2	59.6	61.1	61.4	61.9	62.6	62.6	63.1	63.2	63.2	63.3	63.3	63.3	63.4
3000	34.9	56.0	59.7	62.1	63.6	64.0	64.6	65.3	65.4	65.9	66.0	66.0	66.1	66.1	66.1	66.2
IVIV 2500	36.5	58.6	62.5	65.0	66.6	67.0	67.8	68.5	68.6	69.1	69.2	69.2	69.3	69.3	69.3	69.4
2000	38.1	62.7	66.9	69.9	71.7	72.2	73.1	73.9	74.0	74.7	74.9	74.9	74.9	74.9	75.0	75.1
IVIV 1800	38.6	63.7	68.0	71.2	73.0	73.5	74.4	75.2	75.3	76.1	76.3	76.3	76.3	76.3	76.3	76.4
1500	39.6	66.3	71.0	74.6	77.2	77.5	78.7	79.6	79.7	80.5	80.6	80.6	80.7	80.7	80.7	80.8
IVIV 1200	40.2	68.2	73.3	77.8	80.7	81.2	82.7	83.7	83.8	84.7	84.9	84.9	84.9	84.9	84.9	85.0
1000	40.7	69.4	74.7	79.7	82.9	83.5	85.2	86.4	86.5	87.6	87.9	87.9	87.9	87.9	88.0	88.1
IVIV 900	40.8	70.0	75.5	80.6	84.0	84.7	86.5	87.8	87.9	89.0	89.3	89.3	89.4	89.4	89.5	89.6
800	40.9	70.6	76.4	81.8	85.5	86.4	88.5	89.8	89.9	91.2	91.6	91.6	91.7	91.7	91.8	91.9
IVIV 700	40.9	71.1	76.9	82.4	86.2	87.1	89.3	90.8	90.9	92.2	92.7	92.7	92.8	92.8	92.9	93.0
600	40.9	71.2	77.1	82.9	86.9	87.8	90.2	91.9	92.1	93.5	94.1	94.1	94.3	94.3	94.4	94.5
IVIV 500	40.9	71.2	77.3	83.2	87.5	88.4	91.1	93.4	93.7	95.4	96.2	96.4	96.7	96.7	96.8	96.9
400	40.9	71.2	77.5	83.6	88.3	89.3	92.2	94.6	94.9	96.7	97.5	97.7	98.0	98.0	98.1	98.2
IVIV 300	40.9	71.2	77.5	83.7	88.4	89.3	92.3	94.8	95.0	97.0	97.8	98.0	98.5	98.5	98.6	98.7
200	40.9	71.2	77.5	83.7	88.4	89.3	92.3	94.9	95.2	97.2	98.2	98.3	98.8	98.8	99.0	99.2
IVIV 100	40.9	71.2	77.5	83.7	88.4	89.3	92.3	94.9	95.2	97.3	98.3	98.5	99.0	99.0	99.3	99.5
0	40.9	71.2	77.5	83.7	88.4	89.3	92.3	94.9	95.2	97.3	98.3	98.5	99.0	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	39.2	36.4	37.3	37.9	38.1	38.1	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
≥ 20000	34.8	44.4	45.8	46.3	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
IV 18000	35.7	44.8	46.2	46.7	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
16000	35.1	44.9	46.3	46.8	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
IV 14000	35.9	46.1	47.4	48.0	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
12000	37.3	48.1	49.5	50.1	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
IV 10000	38.7	51.2	51.7	52.4	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
9000	39.1	51.9	52.3	53.0	53.6	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 8000	41.0	53.5	55.0	55.7	56.2	56.3	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
7000	42.2	55.2	56.8	57.6	58.2	58.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
IV 6000	42.6	56.3	57.9	58.9	59.4	59.5	59.6	59.7	59.7	59.7	59.7	59.7	59.8	59.8	59.8	59.8
5000	43.4	57.5	59.2	60.2	60.8	60.9	61.1	61.3	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4
IV 4500	44.3	58.7	60.5	61.5	62.1	62.2	62.4	62.6	62.6	62.6	62.6	62.6	62.7	62.7	62.7	62.7
4000	45.1	59.8	61.7	62.8	63.5	63.6	63.7	63.7	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0
IV 3500	46.6	61.8	63.7	64.9	65.6	65.7	65.9	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.2	66.2
3000	47.5	63.9	65.9	67.2	67.9	68.0	68.3	68.5	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.7
IV 2500	49.8	67.2	69.4	70.9	71.9	72.0	72.3	72.5	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7
2000	51.6	70.6	73.2	75.0	76.4	76.5	76.8	77.2	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4
IV 1800	52.1	71.9	74.6	76.6	78.0	78.2	78.6	78.9	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1
1500	52.8	74.5	77.3	79.7	81.5	81.7	82.3	83.0	83.1	83.3	83.4	83.4	83.5	83.5	83.5	83.5
IV 1200	53.3	76.4	79.4	82.0	84.5	84.7	85.5	86.2	86.3	86.6	86.8	86.8	86.9	86.9	86.9	86.9
1000	53.6	77.7	81.1	84.1	87.0	87.2	88.3	89.1	89.3	89.8	90.1	90.2	90.3	90.3	90.3	90.3
IV 900	53.7	78.2	81.8	85.1	88.2	88.6	89.9	90.9	91.0	91.6	91.9	92.0	92.2	92.2	92.2	92.2
800	53.7	78.6	82.4	86.0	89.5	90.0	91.6	92.7	92.9	93.6	93.9	93.9	94.1	94.1	94.2	94.2
IV 700	53.7	78.8	82.9	86.7	90.2	90.0	92.3	93.5	93.7	94.5	94.8	94.9	95.1	95.1	95.2	95.2
600	53.7	79.1	83.2	87.1	91.0	91.7	93.7	94.9	95.1	96.2	96.6	96.7	97.0	97.0	97.0	97.0
IV 500	53.7	79.1	83.4	87.6	91.7	92.4	94.9	96.3	96.6	97.9	98.4	98.5	98.7	98.7	98.8	98.8
400	53.7	79.1	83.4	87.7	91.8	92.6	95.3	96.7	97.0	98.3	98.7	98.8	99.1	99.1	99.2	99.2
IV 300	53.7	79.2	83.5	87.7	91.9	92.7	95.5	97.0	97.3	98.7	99.2	99.3	99.6	99.6	99.8	99.8
200	53.7	79.2	83.5	87.7	91.9	92.7	95.5	97.0	97.3	98.7	99.3	99.4	99.7	99.7	99.8	99.8
IV 100	53.7	79.2	83.5	87.7	91.9	92.7	95.5	97.0	97.3	98.7	99.3	99.4	99.7	99.7	99.8	99.8
0	53.7	79.2	83.5	87.7	91.9	92.7	95.5	97.0	97.3	98.7	99.3	99.4	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2132

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-66  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	37.8	38.8	40.0	40.5	41.8	40.9	41.9	41.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
IVIV 18000	35.6	45.3	46.7	47.4	47.8	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IVIV 16000	35.9	45.8	47.2	47.8	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
IVIV 14000	36.3	46.3	47.8	48.4	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IVIV 12000	37.3	47.7	49.2	49.8	51.3	51.4	51.4	51.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
IVIV 10000	38.6	49.3	51.0	51.7	52.3	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IVIV 9000	41.2	51.6	53.3	54.1	54.7	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
IVIV 8000	41.2	53.1	54.7	55.5	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IVIV 7000	42.9	55.5	57.3	58.2	58.8	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IVIV 6000	44.4	57.8	59.7	60.7	61.4	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IVIV 5000	45.2	58.9	61.8	61.9	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
IVIV 4500	46.1	61.4	62.3	63.7	64.6	64.7	65.1	65.1	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.1
IVIV 4000	46.8	61.5	63.5	64.9	65.8	65.9	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IVIV 3500	48.1	63.3	65.4	66.9	67.9	68.1	68.4	68.5	68.5	68.5	68.5	68.5	68.6	68.6	68.6	68.6
IVIV 3000	49.2	64.9	67.0	68.6	69.6	69.8	70.2	70.3	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.4
IVIV 2500	50.2	66.7	68.9	70.5	71.6	71.7	72.3	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5
IVIV 2000	51.6	69.6	72.0	73.7	74.9	75.1	75.7	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1
IVIV 1800	52.5	72.4	75.1	77.4	78.9	79.1	79.9	80.3	80.3	80.4	80.4	80.5	80.5	80.5	80.5	80.5
IVIV 1500	52.7	73.3	76.1	78.5	80.1	80.3	81.2	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IVIV 1200	53.3	75.2	78.1	80.8	82.5	82.7	84.0	84.6	84.6	84.8	84.9	84.9	84.9	84.9	84.9	84.9
IVIV 1000	53.4	76.3	79.4	82.6	84.6	84.9	86.4	87.2	87.2	87.5	87.7	87.7	87.7	87.7	87.7	87.7
IVIV 900	53.5	77.3	80.6	84.7	87.0	87.4	89.4	90.3	90.3	90.7	91.1	91.1	91.1	91.1	91.2	91.2
IVIV 800	53.5	77.7	81.1	85.5	88.0	88.5	90.8	91.8	91.9	92.3	92.6	92.7	92.7	92.7	92.7	92.7
IVIV 700	53.6	78.0	81.5	86.1	89.0	89.6	92.0	93.2	93.2	94.0	94.3	94.4	94.4	94.4	94.5	94.5
IVIV 600	53.6	78.0	81.5	86.3	89.2	89.8	92.5	93.7	93.8	94.7	95.0	95.0	95.1	95.1	95.2	95.2
IVIV 500	53.6	78.1	81.6	86.5	89.7	90.3	93.3	94.7	94.7	95.8	96.2	96.3	96.5	96.5	96.6	96.6
IVIV 400	53.6	78.1	81.6	86.7	90.3	90.6	93.7	95.3	95.4	96.9	97.3	97.4	97.7	97.7	97.8	97.8
IVIV 300	53.6	78.2	81.7	86.8	90.3	90.9	94.1	95.7	95.8	97.4	97.9	97.9	98.2	98.4	98.5	98.5
IVIV 200	53.6	78.2	81.7	86.9	90.5	91.0	94.3	96.2	96.3	98.1	98.7	98.8	99.2	99.3	99.4	99.4
IVIV 100	53.6	78.2	81.7	86.9	90.5	91.1	94.5	96.4	96.4	98.3	99.0	99.1	99.5	99.6	99.7	99.7
IVIV 0	53.6	78.2	81.7	86.9	90.5	91.1	94.5	96.4	96.4	98.5	99.1	99.2	99.7	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46, 49-66  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	6.6 9.1	47.3 44.6	41.8 46.4	43.2 47.8	43.7 48.6	43.8 48.6	43.9 48.9	44.0 49.0	44.0 49.0	44.0 49.0	44.0 49.0	44.0 49.0	44.0 49.0	44.0 49.0	44.0 49.1	44.0 49.1
IVIV 18000 16000	29.1 29.4	44.8 45.3	46.6 47.1	48.0 48.5	48.8 49.3	48.8 49.3	49.1 49.6	49.2 49.8	49.2 49.8	49.2 49.8	49.2 49.8	49.2 49.8	49.2 49.8	49.2 49.8	49.3 49.8	49.3 49.8
IVIV 14000 12000	29.6 31.0	46.0 48.4	47.9 50.3	49.3 51.7	50.1 52.6	50.1 52.6	50.4 53.1	50.6 53.2	50.6 53.2	50.6 53.2	50.6 53.2	50.6 53.2	50.6 53.2	50.6 53.2	50.6 53.2	50.6 53.2
IVIV 10000 9000	31.9 32.8	49.7 51.1	51.9 53.3	53.3 54.8	54.3 55.8	54.4 55.8	54.8 56.2	54.9 56.4	54.9 56.4	54.9 56.4	54.9 56.4	54.9 56.4	54.9 56.4	54.9 56.4	55.0 56.4	55.0 56.4
IVIV 8000 7000	34.1 34.9	52.9 54.8	55.3 57.3	56.8 59.0	57.9 60.0	58.0 60.1	58.4 60.6	58.5 60.7	58.5 60.7	58.5 60.7	58.5 60.7	58.5 60.7	58.5 60.7	58.5 60.7	58.6 60.8	58.6 60.8
IVIV 6000 5000	35.1 35.9	55.8 58.5	58.4 61.6	60.3 63.6	61.4 65.0	61.6 65.2	62.0 65.8	62.2 65.9	62.2 65.9	62.2 66.0	62.2 66.0	62.2 66.0	62.2 66.0	62.2 66.0	62.2 66.0	62.2 66.0
IVIV 4500 4000	36.0 37.3	59.8 61.4	63.0 64.7	65.1 67.1	66.5 68.6	66.6 68.9	67.3 69.6	67.4 69.7	67.4 69.7	67.5 69.8	67.5 69.8	67.5 69.8	67.5 69.8	67.5 69.8	67.5 69.8	67.5 69.9
IVIV 3500 3000	38.1 38.8	63.4 65.3	66.9 69.0	69.4 71.7	70.9 73.3	71.2 73.5	71.9 74.4	72.0 74.6	72.0 74.6	72.1 74.7	72.1 74.7	72.1 74.7	72.1 74.7	72.1 74.7	72.1 74.7	72.2 74.8
IVIV 2500 2000	39.5 40.1	67.7 70.9	71.8 75.2	74.7 78.4	76.6 80.6	76.8 80.8	77.7 82.1	78.0 82.4	78.1 82.5	78.2 82.7	78.2 82.8	78.2 82.8	78.2 82.8	78.2 82.8	78.3 82.8	78.3 82.9
IVIV 1800 1500	40.3 40.7	71.6 72.7	76.0 77.2	79.3 81.1	81.6 83.9	81.8 84.2	83.2 85.8	83.5 86.1	83.5 86.2	83.9 86.5	83.9 86.6	83.9 86.6	83.9 86.6	83.9 86.6	84.0 86.7	84.0 86.7
IVIV 1200 1000	40.8 40.8	73.7 74.1	78.4 79.3	83.0 84.2	86.1 87.6	86.5 88.1	88.3 90.1	88.9 90.8	89.1 91.0	89.4 91.4	89.6 91.6	89.6 91.6	89.6 91.6	89.6 91.6	89.6 91.6	89.7 91.7
IVIV 900 800	40.8 40.8	74.3 74.5	79.6 79.9	84.9 85.4	88.5 89.1	89.0 89.7	91.2 92.0	91.9 92.7	92.1 92.9	92.6 93.5	92.8 93.7	92.8 93.7	92.8 93.7	92.8 93.7	92.8 93.8	92.8 93.8
IVIV 700 600	40.8 40.9	74.6 74.7	80.1 80.3	85.7 86.0	89.4 90.0	90.1 90.8	92.8 93.8	93.5 94.7	93.7 94.9	94.4 95.8	94.7 96.1	94.7 96.1	94.7 96.2	94.7 96.2	94.8 96.2	94.8 96.3
IVIV 500 400	40.9 40.9	74.8 74.8	80.4 80.4	86.4 86.5	90.6 90.8	91.4 91.6	94.6 95.0	95.6 96.0	95.7 96.2	97.0 97.5	97.2 97.8	97.2 97.8	97.3 97.9	97.3 97.9	97.3 97.9	97.4 98.0
IVIV 300 200	40.9 40.9	74.8 74.8	80.5 80.5	86.5 86.6	90.9 91.0	91.8 91.8	95.3 95.5	96.4 96.7	96.6 96.9	98.1 98.5	98.6 98.9	98.6 99.0	98.7 99.3	98.7 99.3	98.8 99.4	98.8 99.5
IVIV 100 0	40.9 40.9	74.8 74.8	80.5 80.5	86.6 86.6	91.0 91.0	91.8 91.8	95.5 95.5	96.8 96.8	97.0 97.0	98.5 98.5	99.0 99.0	99.1 99.1	99.6 99.6	99.6 99.6	99.8 99.9	99.9 100.0

TOTAL NUMBER OF OBSERVATIONS 2139

DATA PROCESSING DIVISION  
FTAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-46,49-65  
YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	72.8 24.6	38.1 41.7	40.8 44.6	42.4 46.3	43.5 47.1	43.1 47.1	43.4 47.5	43.7 47.9	43.7 48.7	43.9 48.2	43.9 48.2	43.9 48.2	44.0 48.3	44.0 48.3	44.0 48.3	44.0 48.3
IVIV 18000 16000	74.7 74.7	41.9 42.0	44.8 45.0	46.5 46.7	47.2 47.5	47.3 47.6	47.7 48.0	48.1 48.5	48.2 48.5	48.4 48.7	48.4 48.7	48.4 48.7	48.5 48.8	48.5 48.8	48.5 48.8	48.5 48.8
IVIV 14000 12000	75.4 66.0	43.4 44.7	46.4 47.8	48.4 52.0	49.1 52.8	49.3 51.0	49.7 51.4	50.1 51.9	50.2 51.9	50.4 52.1	50.4 52.1	50.4 52.1	50.5 52.2	50.5 52.2	50.5 52.2	50.5 52.2
IVIV 10000 9000	76.9 78.0	46.6 47.9	50.0 51.4	52.1 53.6	52.9 54.4	53.1 54.6	53.6 55.1	54.0 55.6	54.1 55.6	54.3 55.8	54.3 55.8	54.3 55.8	54.3 55.9	54.3 55.9	54.3 55.9	54.4 55.9
IVIV 8000 7000	78.7 79.3	49.8 51.7	53.4 55.4	55.6 57.7	56.4 58.6	56.6 58.7	57.1 59.3	57.6 59.7	57.6 59.8	57.8 60.0	57.8 60.0	57.8 60.0	57.9 60.1	57.9 60.1	57.9 60.1	58.0 60.1
IVIV 6000 5000	79.5 80.4	52.7 55.3	56.7 59.6	59.1 62.3	60.0 63.3	60.0 63.5	60.7 64.1	61.2 64.6	61.3 64.7	61.5 64.9	61.5 64.9	61.5 64.9	61.6 65.0	61.6 65.0	61.6 65.0	61.6 65.1
IVIV 4500 4000	81.1 81.6	57.7 58.5	61.5 63.1	64.2 66.7	65.4 67.4	65.6 67.6	66.2 68.4	66.8 69.0	66.9 69.0	67.1 69.2	67.1 69.2	67.1 69.2	67.2 69.3	67.2 69.3	67.2 69.3	67.3 69.4
IVIV 3500 3000	82.2 82.6	60.6 62.6	65.3 67.7	68.3 70.8	69.8 72.4	70.0 72.6	70.8 73.4	71.4 74.0	71.4 74.1	71.6 74.3	71.6 74.3	71.6 74.3	71.7 74.5	71.7 74.5	71.7 74.5	71.8 74.6
IVIV 2500 2000	83.2 83.8	64.7 68.3	70.1 74.1	73.9 78.1	75.6 80.1	75.9 80.5	76.8 81.6	77.4 82.3	77.5 82.3	77.7 82.6	77.7 82.6	77.7 82.6	77.8 82.7	77.8 82.7	77.8 82.7	77.9 82.8
IVIV 1800 1500	84.9 84.0	68.9 70.2	74.8 76.4	78.9 80.9	80.9 83.3	81.3 83.7	82.5 85.1	83.2 85.8	83.3 85.9	83.5 86.2	83.5 86.2	83.5 86.2	83.7 86.3	83.7 86.3	83.7 86.3	83.8 86.4
IVIV 1200 1000	84.2 84.3	71.4 71.8	78.3 78.9	83.4 84.3	86.2 87.3	86.6 87.8	88.3 89.4	89.1 90.5	89.2 90.5	89.6 91.2	89.6 91.2	89.6 91.2	89.8 91.2	89.8 91.2	89.8 91.2	89.9 91.3
IVIV 900 800	84.3 84.2	71.9 72.2	79.0 79.3	84.5 85.2	87.5 88.4	88.0 88.9	89.9 90.8	91.0 91.9	91.0 92.0	91.5 92.5	91.5 92.5	91.5 92.5	91.7 92.7	91.7 92.7	91.7 92.7	91.8 92.8
IVIV 700 600	84.4 84.4	72.5 72.7	79.6 80.1	85.3 86.0	89.0 89.8	89.6 90.4	91.6 92.9	92.9 94.2	93.0 94.2	93.5 94.8	93.6 94.8	93.6 94.9	93.7 95.0	93.7 95.0	93.7 95.0	93.8 95.1
IVIV 500 400	84.4 84.4	72.7 72.7	80.1 80.2	86.1 86.3	89.9 90.2	90.6 91.0	93.3 93.8	94.7 95.4	94.8 95.5	95.5 96.2	95.6 96.2	95.7 96.4	95.9 96.7	95.9 96.7	96.0 96.8	96.1 96.9
IVIV 300 200	84.4 84.4	72.8 72.8	80.3 80.3	86.5 86.6	90.5 90.6	91.3 91.3	94.2 94.4	95.8 96.1	95.9 96.2	96.8 97.2	97.1 97.2	97.2 97.6	97.5 98.2	97.5 98.2	97.8 98.5	97.8 98.6
IVIV 100 0	84.4 84.4	72.8 72.8	80.3 80.3	86.6 86.6	90.6 90.6	91.3 91.3	94.4 94.4	96.1 96.1	96.2 96.2	97.3 97.3	97.8 97.8	98.0 98.1	98.8 98.8	98.8 98.8	99.2 99.3	99.3 100.0

TOTAL NUMBER OF OBSERVATIONS 2138

## PART D

## SKY COVER

This summary is prepared from hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 288-1

## SKY COVER

13827

SMYRNA TENNESSEE/SEWART AFB

46-47,49-66

ALL

STATION

STATION NAME

PERIOD

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	19.0	3.1	2.7	3.0	2.0	2.0	2.2	2.9	4.3	3.6	55.0	6.9	14829
FEB		23.0	3.5	3.2	3.7	2.5	2.0	2.5	3.0	4.8	3.7	48.1	6.3	12863
MAR		22.2	3.4	4.0	3.7	2.9	2.5	2.8	3.6	4.9	3.7	46.3	6.2	14134
APR		22.5	3.7	4.1	4.0	3.8	3.5	3.4	4.3	6.4	4.5	39.8	6.0	13680
MAY		22.3	4.7	5.2	5.5	5.0	4.2	4.2	5.1	7.8	5.2	30.9	5.5	14134
JUN		20.4	5.1	6.1	6.5	6.1	5.9	4.8	6.5	8.4	5.7	24.4	5.3	13529
JUL		19.4	4.8	6.5	6.5	6.1	6.1	5.1	7.3	9.6	6.6	22.0	5.3	13391
AUG		24.1	5.7	6.2	7.1	5.8	5.5	4.7	6.2	8.2	6.1	20.4	4.9	13389
SEP		31.9	5.8	5.3	5.4	4.6	4.5	3.5	4.8	6.1	4.8	23.3	4.5	13678
OCT		41.5	5.0	4.9	4.1	3.4	3.2	3.0	3.5	4.5	3.7	23.1	4.0	14132
NOV		30.5	4.4	4.1	4.1	2.6	2.7	2.8	3.7	5.0	4.0	36.1	5.3	13676
DEC		23.9	3.3	3.6	3.2	2.3	2.3	2.5	3.3	4.5	3.6	47.5	6.2	14134
TOTALS		25.1	4.4	4.6	4.7	3.9	3.7	3.4	4.5	6.2	4.6	34.9	5.5	165569

## SKY COVER

**JAN**

MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	00-02	27.5	1.7	2.6	2.6	1.3	1.6	1.5	2.5	2.7	1.8	54.1	6.3	1854
	03-05	26.0	1.3	2.0	2.0	1.8	2.0	1.5	1.9	3.6	1.3	56.5	6.6	1854
	06-08	15.8	2.8	3.6	3.1	2.2	2.1	1.7	2.8	4.0	5.0	56.9	7.1	1854
	09-11	12.4	3.8	1.9	2.7	1.9	2.2	3.0	3.0	4.9	6.0	58.3	7.5	1854
	12-14	12.4	4.0	2.3	3.3	2.8	2.2	2.4	3.2	5.7	5.5	56.2	7.3	1853
	15-17	12.8	5.5	2.9	3.2	2.0	2.3	1.9	4.2	6.0	4.4	54.8	7.2	1854
	18-20	19.8	3.4	3.7	4.2	2.3	1.9	2.6	3.3	4.2	2.9	51.7	6.6	1854
	21-23	25.2	2.1	2.9	3.2	2.2	2.1	3.3	2.4	3.0	1.9	51.7	6.3	1852
TOTALS		19.0	3.1	2.7	3.0	2.0	2.0	2.2	2.9	4.3	3.6	55.0	6.9	14829



## SKY COVER

FEB

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	00-02	32.0	2.4	3.2	2.5	1.9	1.2	2.1	2.1	3.0	1.1	48.7	5.8	1608
	03-05	30.7	1.4	2.5	3.5	1.5	1.4	1.9	2.6	3.0	2.1	49.3	6.0	1608
	06-08	18.9	4.6	2.9	4.0	1.7	1.6	1.4	3.1	4.9	4.4	52.5	6.7	1607
	09-11	15.8	4.7	2.4	3.8	2.6	1.7	3.4	3.3	5.5	4.6	52.2	6.9	1608
	12-14	14.7	4.5	3.2	3.5	3.5	2.6	3.5	5.0	7.1	6.4	45.9	6.8	1608
	15-17	16.1	5.2	4.4	4.2	3.4	1.7	3.4	3.9	6.1	5.5	46.1	6.6	1608
	18-20	24.4	3.6	4.2	5.3	2.9	3.0	2.4	2.1	4.4	3.0	44.5	5.9	1608
	21-23	31.8	1.7	2.6	3.1	2.4	2.5	2.1	2.2	4.1	2.2	45.2	5.7	1608
TOTALS		23.0	3.5	3.2	3.7	2.5	2.0	2.5	3.0	4.8	3.7	48.1	6.3	12863

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

## SKY COVER

13827

SMYRNA TENNESSEE/SEWART AFB

47,49-66

MAR

STATION

STATION NAME

PERIOD

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
MAR	00-02	33.0	1.6	2.3	2.9	1.9	1.5	2.5	2.4	4.0	1.8	46.1	5.7	1767
	03-05	29.4	2.5	2.7	2.9	2.0	1.6	1.8	2.6	3.7	1.8	48.8	6.0	1767
	06-08	17.7	4.4	3.5	3.4	2.9	2.4	2.5	3.7	4.9	5.1	49.6	6.7	1767
	09-11	15.1	4.4	4.3	3.1	3.3	2.4	3.7	4.8	6.0	5.2	47.8	6.8	1767
	12-14	12.7	3.6	4.6	4.0	3.5	3.6	3.4	4.8	6.5	5.6	47.8	6.9	1767
	15-17	13.0	4.5	4.6	4.1	3.6	3.7	3.2	4.9	7.0	6.1	45.3	6.8	1765
	18-20	23.4	3.9	6.3	4.1	3.2	2.2	2.9	3.5	4.5	2.5	43.4	5.9	1767
	21-23	33.2	2.4	3.8	4.8	2.8	2.5	2.3	2.5	2.4	1.6	41.7	5.3	1767
TOTALS		22.2	3.4	4.0	3.7	2.9	2.5	2.8	3.6	4.9	3.7	46.3	6.2	14134

1  
DATA PROCESSING DIVISION  
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ASHEVILLE, N.C. 28801

SKY COVER

13827

SMYRNA TENNESSEE/SEKART AFB

47,49-66

APR

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
APR	00-02	35.0	2.7	3.8	3.6	2.6	1.6	3.1	3.2	4.7	2.2	37.5	5.1	1710
	03-05	27.9	3.6	4.5	4.7	3.3	3.0	3.2	3.1	5.6	3.0	38.1	5.5	1710
	06-08	18.7	4.3	4.2	3.6	4.0	2.9	3.1	4.8	5.6	5.5	43.3	6.3	1710
	09-11	15.3	4.6	4.6	4.3	4.4	4.8	3.2	5.6	5.5	6.0	41.8	6.4	1710
	12-14	13.7	4.0	4.0	2.9	4.2	5.3	4.5	5.5	8.6	6.2	41.1	6.7	1710
	15-17	14.9	4.0	4.2	4.6	4.2	4.1	3.4	5.3	9.4	6.6	39.5	6.5	1710
	18-20	20.6	4.7	4.4	4.7	4.0	3.7	3.9	4.6	6.4	3.9	39.0	5.9	1710
	21-23	34.1	1.9	3.3	3.3	3.9	2.3	2.7	2.7	5.6	2.5	37.7	5.2	1710
TOTALS		22.5	3.7	4.1	4.0	3.8	3.5	3.4	4.3	6.4	4.5	39.8	6.0	13680

## SKY COVER

**MAY**

**MONTH**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
MAY	00-02	43.0	3.2	5.0	5.1	3.7	3.5	2.6	2.9	5.2	2.5	23.4	3.9	1767
	03-05	27.8	5.4	5.5	4.8	4.4	3.4	2.8	4.1	7.1	4.7	30.1	5.1	1767
	06-08	19.5	4.9	4.9	4.8	3.5	2.8	3.0	4.4	6.9	7.1	38.3	6.1	1767
	09-11	14.6	4.2	4.9	4.9	4.8	4.1	4.4	5.5	10.0	6.8	35.9	6.3	1767
	12-14	9.2	3.2	3.8	5.0	6.5	7.2	6.3	7.5	12.0	6.8	32.5	6.6	1767
	15-17	8.0	5.3	5.6	7.6	6.6	5.7	5.7	6.3	10.1	7.0	32.0	6.4	1767
	18-20	17.9	7.4	6.0	6.3	5.7	4.1	4.6	5.8	7.2	4.4	30.5	5.5	1767
	21-23	38.2	3.6	5.8	5.4	5.1	3.2	4.1	4.3	3.7	2.2	24.3	4.2	1765
TOTALS		22.3	4.7	5.2	5.5	5.0	4.2	4.2	5.1	7.8	5.2	30.9	5.5	14134

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# SKY COVER

13827

SMYRNA TENNESSEE/SEWART AFB

47,49-66

JUN

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUN	00-02	44.9	3.8	5.5	4.7	3.6	3.5	3.9	4.1	3.8	2.0	20.2	3.6	1692
	03-05	25.9	5.3	6.3	6.0	6.1	4.6	3.7	6.1	6.4	4.9	24.6	4.9	1692
	06-08	19.8	5.7	5.6	4.9	4.7	5.6	3.5	6.7	8.9	7.0	27.5	5.6	1692
	09-11	11.2	5.5	5.0	7.1	6.5	7.0	5.2	8.7	11.5	8.0	24.4	6.0	1692
	12-14	4.2	3.1	4.5	8.7	9.0	9.4	7.3	8.2	13.2	9.3	23.0	6.4	1692
	15-17	5.6	6.0	6.8	9.3	8.2	8.3	6.3	7.7	10.3	7.3	24.2	6.0	1692
	18-20	14.9	7.5	7.7	5.9	6.3	4.7	4.3	6.6	8.7	5.0	28.5	5.6	1689
	21-23	36.7	4.0	7.8	5.3	4.6	3.9	4.0	4.0	4.8	2.1	22.7	4.1	1688
TOTALS		20.4	5.1	6.1	6.5	6.1	5.9	4.8	6.5	8.4	5.7	24.4	5.3	13529

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

## SKY COVER

13827

SMYRNA TENNESSEE/SEWART AFB

49-66

JUL

STATION

STATION NAME

PERIOD

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUL	00-02	44.7	4.4	7.3	5.3	3.3	3.2	3.4	4.4	4.6	1.8	17.6	3.4	1674
	03-05	28.3	4.7	8.8	7.2	5.2	4.3	4.4	5.5	6.8	4.7	20.2	4.5	1674
	06-08	17.4	6.0	6.1	5.7	4.9	5.2	4.0	6.9	9.2	7.1	27.4	5.7	1673
	09-11	9.9	4.8	5.4	5.3	6.6	6.7	5.2	8.7	13.5	9.7	24.2	6.2	1674
	12-14	3.0	2.5	3.9	6.8	8.4	11.0	7.6	11.4	14.3	10.2	20.9	6.6	1674
	15-17	4.9	4.6	6.2	8.5	7.7	7.6	6.6	10.4	11.9	9.7	21.9	6.3	1674
	18-20	12.8	6.6	6.9	5.7	6.8	6.1	4.8	7.1	10.7	7.8	24.9	5.8	1674
	21-23	34.3	4.6	7.3	7.4	5.8	4.3	4.8	4.4	5.9	2.2	19.0	4.0	1674
TOTALS		19.4	4.8	6.5	6.5	6.1	6.1	5.1	7.3	9.6	6.6	22.0	5.3	13391

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# SKY COVER

13827

SMYRNA TENNESSEE/SEWART AFB

49-66

AUG

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
AUG	00-02	49.6	3.8	4.2	4.6	4.2	2.7	3.3	3.6	4.2	1.9	17.6	3.3	1674
	03-05	35.1	4.7	7.5	7.4	4.7	3.9	2.8	4.2	6.6	3.3	19.7	4.1	1673
	06-08	23.7	7.1	6.0	5.3	4.7	3.5	3.6	5.3	9.3	6.8	24.8	5.1	1673
	09-11	14.2	6.2	5.7	6.8	6.2	7.0	5.6	6.8	9.7	7.9	24.0	5.7	1674
	12-14	4.5	3.9	4.4	7.5	9.0	11.1	7.2	9.3	12.6	11.1	19.5	6.3	1674
	15-17	5.9	6.6	7.2	11.1	7.4	7.4	5.1	9.6	10.4	9.0	20.4	5.9	1674
	18-20	18.7	7.5	8.2	7.6	5.8	5.3	5.9	6.3	8.2	6.2	20.3	5.0	1673
	21-23	40.8	5.9	6.2	6.3	4.5	3.2	4.0	4.6	4.8	2.9	16.8	3.6	1674
TOTALS		24.1	5.7	6.2	7.1	5.8	5.5	4.7	6.2	8.2	6.1	20.4	4.9	13389

## SKY COVER

SEP

MONTH

MONTH	HOURS (L ST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
SEP	00-02	50.7	3.7	4.9	3.7	3.0	2.1	2.2	3.3	3.5	1.6	21.2	3.4	1710
	03-05	43.0	3.6	4.6	4.6	3.5	3.3	3.4	4.3	3.9	1.9	24.1	4.0	1710
	06-08	27.3	7.4	5.4	4.5	4.8	3.8	2.4	4.4	7.3	6.3	26.3	4.9	1709
	09-11	23.8	7.5	4.7	6.0	4.6	5.0	3.7	4.9	7.8	5.8	26.0	5.1	1710
	12-14	16.1	6.4	4.5	5.6	7.3	8.5	5.0	6.3	8.4	8.1	22.8	5.6	1710
	15-17	17.8	7.0	7.1	7.3	6.5	5.4	3.5	6.3	8.7	7.2	23.3	5.3	1710
	18-20	30.4	5.9	5.9	7.2	3.9	5.0	4.7	4.6	6.1	4.9	21.5	4.5	1710
	21-23	46.3	4.8	5.3	4.4	3.3	3.2	3.2	3.9	3.3	2.1	20.1	3.5	1709
TOTALS		31.9	5.8	5.3	5.4	4.6	4.5	3.5	4.8	6.1	4.8	23.3	4.5	13678



1  
DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# SKY COVER

13827

SMYRNA TENNESSEE/SEWART AFB

46,49-66

OCT

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L ST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
OCT	00-02	58.0	1.8	2.8	2.8	2.7	2.2	2.0	2.1	2.5	1.6	21.4	3.1	1767
	03-05	51.4	3.1	3.4	3.8	2.3	1.6	2.3	2.5	3.2	2.7	23.7	3.6	1767
	06-08	32.2	6.7	6.2	3.9	3.3	3.2	3.1	4.0	5.8	4.9	26.6	4.6	1766
	09-11	31.0	6.5	5.1	5.0	4.9	3.5	3.3	4.6	5.9	5.8	24.3	4.6	1767
	12-14	27.9	5.8	6.2	5.2	4.2	5.0	4.9	5.4	6.4	5.0	24.0	4.8	1766
	15-17	30.1	7.8	5.8	5.0	4.2	4.4	4.1	4.5	6.0	5.0	23.2	4.5	1767
	18-20	44.8	6.1	5.3	3.7	3.3	3.7	2.7	3.3	3.4	2.7	21.0	3.6	1766
	21-23	56.6	2.7	4.1	3.2	2.4	2.0	1.8	1.9	3.0	1.9	20.3	3.1	1766
TOTALS		41.5	5.0	4.9	4.1	3.4	3.2	3.0	3.5	4.5	3.7	23.1	4.0	14132

## SKY COVER

13827

46,49-66

NOV

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
NOV	00-02	40.8	2.5	3.5	3.5	1.7	1.6	2.4	3.0	3.7	1.7	35.8	4.7	1708
	03-05	40.2	2.3	3.0	3.3	2.2	1.6	2.3	2.3	3.1	2.5	37.1	4.8	1710
	06-08	23.4	4.4	4.9	4.3	2.9	2.5	3.0	4.3	5.8	5.0	39.6	5.9	1710
	09-11	22.4	5.8	3.5	3.5	2.4	3.4	2.4	3.6	7.1	6.4	39.6	6.0	1710
	12-14	21.2	4.8	4.0	5.4	2.4	4.4	3.3	4.2	6.5	6.1	37.6	5.9	1710
	15-17	21.3	7.0	4.7	5.4	3.5	3.6	3.3	5.6	5.9	5.4	34.3	5.6	1710
	18-20	34.7	4.9	5.1	4.4	3.3	2.0	2.5	3.3	4.4	2.7	32.6	4.8	1710
	21-23	40.0	3.3	4.0	2.8	2.6	2.3	3.3	3.3	3.7	1.9	32.5	4.6	1708
TOTALS		30.5	4.4	4.1	4.1	2.6	2.7	2.8	3.7	5.0	4.0	36.1	5.3	13676

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ETAC, USAF  
ASHEVILLE, N.C. 28801

# SKY COVER

13827

SMYRNA TENNESSEE/SEWART AFB

46,49-66

DEC

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
DEC	00-02	31.4	2.2	2.9	2.5	2.0	1.8	2.1	2.6	3.3	2.3	47.0	5.8	1767
	03-05	32.7	1.3	2.2	2.6	1.8	1.7	2.0	2.4	3.1	1.8	48.4	5.8	1767
	06-08	18.1	4.6	4.8	3.8	1.5	2.4	2.3	3.5	6.0	4.1	48.8	6.6	1767
	09-11	16.3	4.5	3.2	3.4	2.4	2.4	2.9	3.3	6.6	6.6	48.5	6.8	1766
	12-14	15.2	4.7	4.1	3.7	3.2	3.1	2.9	5.5	6.1	4.8	46.7	6.7	1767
	15-17	17.1	4.3	4.6	4.4	3.6	2.8	2.3	3.8	4.6	5.5	46.9	6.5	1767
	18-20	28.5	3.3	4.0	2.9	2.0	2.1	2.4	2.4	3.5	2.2	46.7	5.8	1767
	21-23	31.6	1.9	2.8	2.3	2.2	1.9	2.7	2.6	2.9	1.9	47.2	5.8	1766
TOTALS		23.9	3.3	3.6	3.2	2.3	2.3	2.5	3.3	4.5	3.6	47.5	6.2	14134

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

### DAILY TEMPERATURES

42-47, 49-65.

MAXIMUM

1210 WS FORM JUL 64 0-21.5 (Det 50) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## DAILY TEMPERATURES

13827 SMYRNA TENNESSEE/SEWART AFB 42-47,49-65

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
≥ 80						.2	.2						.0
≥ 75						3.9	6.8	5.1	.7				1.3
≥ 70					2.0	28.0	52.6	41.8	11.4	1.5			11.2
≥ 65			.2	3.2	19.6	63.8	84.7	72.3	33.0	3.9	.5		23.0
≥ 60	.4	.5	1.8	14.0	46.3	82.6	95.1	93.5	54.4	13.2	2.7	.8	33.2
≥ 55	3.0	2.5	6.6	28.0	67.4	94.4	99.1	99.0	76.1	26.2	6.8	2.9	42.1
≥ 50	7.0	7.6	14.7	44.7	82.4	99.4	100.0	99.8	90.2	41.4	12.8	6.3	49.9
≥ 45	12.8	13.8	25.6	61.8	90.8	100.0		100.0	96.0	62.0	22.5	10.6	57.4
≥ 40	20.7	24.6	40.3	78.0	98.0				99.1	80.6	37.3	18.9	65.9
≥ 35	33.9	39.0	58.2	91.7	99.7				100.0	93.6	56.0	32.1	74.8
≥ 30	51.6	58.7	79.5	98.0	100.0					97.7	75.3	51.5	84.0
≥ 25	70.0	76.9	92.4	100.0						99.8	90.8	71.1	91.5
≥ 20	82.8	85.5	97.6							100.0	97.3	84.5	95.5
≥ 15	92.2	91.9	99.2								99.5	92.9	97.9
≥ 10	96.3	96.6	99.7								99.7	97.1	99.0
≥ 5	98.2	98.3	100.0								99.8	99.4	99.6
≥ 0	99.0	99.2										99.7	99.8
≥ 5-	99.7	99.8									100.0		99.9
≥ 10-	99.8											100.0	99.9
≥ 15-	100.0	100.0											100.0
≥ 20-													
≥ 25-													
≥ 30-													
≥ 35-													
≥ 40-													
≥ 45-													
≥ 50-													
≥ 55-													
≥ 60-													
≥ 65-													
≥ 70-													
≥ 75-													
≥ 80-													
MEAN	30.3	31.8	37.7	48.0	57.3	65.5	68.8	67.5	60.1	47.9	37.0	30.3	48.3
SD	12.03	11.82	10.21	9.54	7.95	5.96	4.68	5.02	7.78	9.50	10.45	11.31	17.04
TOTAL OBS	670	593	620	599	644	621	589	589	570	608	600	620	7323

## DAILY TEMPERATURES

42-47, 49-65

MEAN

1210 WS FORM JUL 64 0-21-5 (Det 50) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,47,49-65  
YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42											78	72	
43	75	70	75	85	90	100	100	105	96	85	82	67	105
44	72	74	81		95	101	99	99	93	88	79	61	
45	58	77	83	85	91	96	101	99	97	87	81	58	101
47		64	80	88									
49	73	75			90	92	95	94	92	88	76	68	
50	77	70	77	83	90	94	91	90	88	88	84	70	94
51	69	73	81	88	92	98	96	103	100	93	72	76	103
52	79	73	80	85	92	104	107	101	94	87	78	70	107
53	67	67	75	84	93	100	98	100	100	93	79	73	100
54	63	75	78	87	92	100	103	103	104	92	77	69	104
55	69	75	77	88	91	90	97	96	96	86	79	71	97
56	58	69	79	85	91	95	98	99	94	85	80	73	99
57	70	71	72	88	91	96	96	99	97	80	76	67	99
58	57	70	61	86	90	96	94	93	92	84	81	64	96
59	73	72	79	84	92	96	94	95	93	91	80	65	96
60	74	66	79	88	92	93	94	96	97	86	76	66	97
61	60	74	73	84	87	89	90	91	92	85	84	72	92
62	73	82	74	84	94		98	100	95	83	69	68	
63	67	64	84	88	87	94	92	97	89	86	73	60	97
64	68	59	73	85	92	96	95	98	94	81	78	75	98
65	70	72	70	87	87	88							
6	79		4	88	95	104	107	105	104		74	76	101
MEAN	69.1	71.0	76.6	85.9	91.0	95.7	96.7	97.8	94.9	86.7	78.1	68.3	93.1
S. D.	5.964	5.113	5.246	1.761	2.139	4.230	4.175	4.022	3.857	3.649	3.782	4.898	4.090
TOTAL OBS	620	593	620	570	620	570	589	589	570	589	600	620	7150



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

## EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,47,49-65  
YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42													
43	10	12	8	32	44	59	57	56	44	32	27	10	8
44	15	14	22		38	52	55	57	50	32	23	17	
45	11	9	30	33	40	46	54	51	51	34	22	8	8
47		6	19	38									
49	15	10			49	60	65	60	38	39	23	15	
50	22	22	21	25	54	50	58	54	42	41	1	11	1-
51	15	11-	24	33	42	58	59	60	43	37	16	9	11-
52	14	25	24	30	42	58	57	59	46	26	20	20	14
53	23	23	30	32	47	58	58	56	47	31	20	8	8
54	12	21	23	32	37	47	65	60	51	32	19	20	12
55	7	7	16	37	47	51	63	63	56	31	15	12	7
56	14	27	24	33	46	45	61	54	43	40	21	23	14
57	9	24	28	32	38	59	61	57	50	28	23	9	9
58	15	2-	23	30	39	53	65	57	49	34	19	10	2-
59	2	14	25	34	41	53	61	65	53	35	16	23	2
60	16	8	7	29	37	53	62	65	51	34	23	6	6
61	3	15	30	31	38	53	50	57	42	24	16	7	3
62	4-	9	23	28	42		52	57	38	26	20	10-	
63	13-	3	27	31	31	58	53	53	38	28	22	3	13-
64	8	12	22	28	43	50	55	49	39	28	14	9	8
65	1	1-	16	37	46	50							
66	-13	11	7	25	31	45	50	41	38	24	-1	-10	-13
MEAN	9.8	11.8	22.1	31.8	42.1	53.3	58.5	57.4	47.8	32.2	19.1	11.1	4.5
S D	8.638	9.823	6.406	3.270	5.176	4.715	4.551	4.271	5.580	4.860	5.790	7.543	7.925
TOTAL OBS	620	593	620	570	620	570	589	589	570	589	600	620	7150

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

[illegible]

618

①

ALL  
MONT

YEARS

ALL  
MONTH

210 WS 0-26.5 (OLI) FORM 0-26.5 (OLI) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D B / W B	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29	30	>31	Dry Bulb	Wet Bulb	Dew Point													
106/105																			.0	.0	4	4													
104/103																			.0	.0	22	22													
102/101																			.0	.0	65	65													
100/ 99																			.0	.0	155	157													
98/ 97										.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	310	312														
96/ 95							.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	664	666														
94/ 93						.0	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1109	1117														
92/ 91					.0	.0	.0	.1	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1813	1834														
90/ 89		.0	.0		.0	.0	.1	.3	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	2603	2620														
88/ 87				.0	.0	.1	.3	.4	.3	.2	.2	.1	.0	.0	.0					3314	3329	1													
86/ 85			.0	.0	.1	.3	.5	.4	.3	.2	.1	.1	.0	.0						3938	3950	3													
84/ 83		.0	.0	.1	.3	.5	.4	.3	.3	.2	.1	.1	.0	.0						4205	4229	3													
82/ 81		.0	.0	.3	.5	.4	.4	.3	.3	.2	.1	.0	.0	.0						4750	4773	48													
80/ 79	.0	.0	.2	.5	.5	.4	.4	.3	.3	.2	.1	.0	.0							5517	5553	392													
78/ 77	.0	.1	.5	.6	.5	.4	.3	.3	.2	.1	.1	.0	.0							6121	6161	2146													
76/ 75	.0	.5	.9	.7	.5	.4	.3	.3	.2	.1	.1	.0	.0							7256	7313	5646													
74/ 73	.1	1.0	.9	.6	.4	.3	.3	.2	.2	.1	.1	.0	.0							7663	7727	8554													
72/ 71	.1	1.2	.9	.6	.4	.3	.2	.2	.1	.1	.1	.0	.0							8136	8221	10169													
70/ 69	.2	1.2	1.0	.7	.4	.3	.2	.2	.1	.1	.0	.0								8192	8295	10660													
68/ 67	.1	1.1	1.0	.6	.4	.3	.2	.2	.2	.1	.0	.0								7590	7696	9792													
66/ 65	.2	1.0	1.0	.5	.4	.2	.2	.2	.2	.1	.0	.0								7301	7395	9381													
64/ 63	.1	1.0	.8	.5	.3	.2	.2	.2	.2	.1	.0	.0								6556	6663	8746													
62/ 61	.1	1.1	.7	.5	.3	.3	.2	.2	.1	.0										6510	6613	8210													
60/ 59	.2	1.0	.7	.5	.3	.3	.2	.2	.1	.0										6562	6657	7846													
58/ 57	.2	1.0	.6	.4	.3	.3	.2	.2	.0	.0										5997	6108	7029													
56/ 55	.2	1.0	.6	.4	.4	.3	.2	.1	.0											6008	6131	6675													
54/ 53	.1	.9	.6	.4	.3	.3	.2	.1	.0											5586	5700	6218													
52/ 51	.2	.9	.6	.5	.4	.3	.2	.0																											

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-47, 49-66  
YEARS

ALL  
MONTH

PAGE 2 ALL  
HOURS (L S T)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL DB /WB	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
38/ 37	.2	1.	.8	.5	.1	.0												4859	4972	6050	5451
36/ 35	.2	1.	.8	.4	.1	.0												4851	4958	5835	5997
34/ 33	.2	1.1	.8	.2	.0													4243	4367	5435	5855
32/ 31	.2	.3	.7	.2	.0													3682	3785	5245	6288
30/ 29	.1	.2	.5	.1	.0													3233	3345	4304	5899
28/ 27	.1	.4	.4	.1														2601	2715	3643	4429
26/ 25	.1	.6	.3	.2														2001	2088	2770	4918
24/ 23	.1	.5	.2	.0														1411	1462	2175	4317
22/ 21	.1	.4	.1	.0														1125	1175	1561	3674
20/ 19	.1	.4	.1	.0														945	989	1260	2801
18/ 17	.1	.3	.0															715	735	969	2463
16/ 15	.1	.2	.0															500	522	736	2145
14/ 13	.0	.1	.0															307	322	432	1535
12/ 11	.0	.1	.0															262	270	311	1183
10/ 9	.0	.1	.0															178	183	238	900
8/ 7	.0	.0																115	123	135	753
6/ 5	.0	.0																75	75	91	584
4/ 3	.0	.0																71	71	69	418
2/ 1	.0	.0																55	55	65	267
0/- 1	.0	.0																39	40	38	167
-2/- 3	.0	.0																26	26	30	91
-4/- 5	.0	.0																20	20	23	96
-6/- 7	.0	.0																14	14	16	53
-8/- 9	.0	.0																14	14	16	45
-10/-11	.0	.0																6	6	6	29
-12/-13	.0	.0																7	7	7	32
-14/-15																					26
-16/-17																					21
-18/-19																					5
-20/-21																					8
-22/-23																					1
TOTAL	4.727	21.1	12.9	8.9	6.9	5.6	4.6	3.6	2.5	1.6	.8	.4	.2	.1	.0	.0		190409		187238	
																		187239		187245	
Element (X)	$\Sigma x^2$		$\Sigma x$		$\bar{x}$		$\sigma_x$		No. Obs		Mean No. of Hours with Temperature							Total			
Rel Hum.	982084888		13062562		69.8		19.443		187238		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb	720253671		11161129		58.6		18.638		190409		5.6	812.8	3464.7	2337.6	1224.5	110.6	8760.0				
Wet Bulb	568973324		9877822		52.8		15.980		187245		6.2	1114.4	2246.3	798.1	7.9		8760.0				
Dew Point	482503972		8921754		47.6		17.519		187238		26.5	1997.4	1449.0	210.4	.5		8760.0				

FORM 1210 WS 0-26-5 (04-50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64











## PSYCHROMETRIC SUMMARY

13827	SPYRNA TENNESSEE/SEWART AFB
STATION	STATION NAME

43-45, 47, 49-66

MAR  
MONTH

PAGE 1 ALL  
HOURS (L S T)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

PAGE 2 ALL  
HOURS (L S T)

[illegible]

FORM 0-26.5 (Det 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64 WS 2710

## PSYCHROMETRIC SUMMARY

43-45, 47, 49-66

APR  
MONT

PAGE 1 ALL  
HOURS (L S T)

[illegible]

FORM 0-26-5 (OL1)  
JUL 64

## PSYCHROMETRIC SUMMARY

APR  
MON

PAGE 2 ALL  
HOURS (L S T)

[illegible]

FORM 0-26.5 (OLI)  
JUL 64

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

13827  
STATION

SMYRNA TFFNFSSEE/SEWART AFB  
STATION NAME

43-45,47,49-66  
YEARS

MAY  
MONTH

PAGE 1 ALL  
HOURS (L S T)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL DB/WB	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
94/ 93										.0	.0	.0	.0	.0	.0			15	15		
92/ 91						.0			.0	.1	.2	.2	.1	.0				110	110		
90/ 89					.0	.0	.0	.0	.1	.3	.4	.2	.1	.0				206	206		
88/ 87				.0	.0	.0	.1	.2	.5	.6	.5	.1	.1	.0				355	355		
86/ 85			.0	.0	.0	.1	.4	.7	.7	.6	.4	.2	.1	.0				522	522		
84/ 83			.0	.0	.0	.2	.7	.8	.6	.5	.3	.1	.0	.0				544	544		
82/ 81			.0	.0	.2	.6	.8	.9	.7	.4	.3	.2	.0					703	703	6	
80/ 79			.0	.1	.5	1.0	.9	.8	.6	.4	.3	.1	.0					775	775	8	3
78/ 77		.0	.1	.3	.9	1.1	.8	.7	.5	.4	.2	.1	.0					801	802	15	10
76/ 75		.0	.2	.9	1.3	.9	.6	.4	.4	.3	.1	.0						842	844	11	11
74/ 73		.1	.6	1.4	1.2	.8	.5	.4	.3	.2	.0	.0						887	888	322	29
72/ 71	.0	.3	1.5	1.5	1.2	.6	.5	.3	.2	.1	.0	.0						1004	1004	841	92
70/ 69	.0	1.2	2.2	1.7	.7	.6	.4	.3	.2	.1	.0							1217	1219	1324	318
68/ 67	.1	2.7	2.6	1.1	.8	.5	.3	.2	.2	.1	.0							1298	1300	1772	823
66/ 65	.4	2.9	2.2	1.0	.6	.4	.2	.2	.1	.0								1302	1302	2083	1559
64/ 63	.3	2.6	1.7	.8	.5	.3	.3	.2	.1	.0								1105	1109	1829	1865
62/ 61	.2	2.2	1.4	.7	.4	.3	.3	.1	.0									897	901	1516	1765
60/ 59	.3	2.0	1.3	.7	.2	.3	.2	.1	.0									825	827	1351	1560
58/ 57	.2	1.4	1.0	.4	.3	.3	.1	.0	.0									589	589	1079	1442
56/ 55	.2	1.2	.8	.5	.3	.2	.0	.0	.0									534	534	873	1171
54/ 53	.1	1.2	.5	.3	.1	.1	.0	.0										391	391	646	976
52/ 51	.0	.9	.7	.3	.1	.0	.0											346	346	622	879
50/ 49	.1	.8	.5	.3	.1	.0	.0											281	281	551	705
48/ 47	.1	.6	.4	.1	.0		.0											201	201	402	566
46/ 45	.0	.6	.2	.1	.0													166	166	314	514
44/ 43	.1	.5	.2	.0	.0	.0												132	132	246	449
42/ 41	.1	.2	.1	.0	.0													73	73	152	421
40/ 39	.0	.2	.1															47	47	87	322
38/ 37	.0	.1	.0	.0														16	16	55	230
36/ 35		.0	.0															9	9	16	199
34/ 33		.0																5	5	12	128
32/ 31		.0																2	2	6	82
30/ 29																				1	31
28/ 27																					14
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature										
Rel Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb																					
Wet Bulb																					
Dew Point																					

FORM 1210 WS JUL 64 0-26-5 (Det 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

MAY  
MON

PAGE 2 ALL  
HOURS (L S T)

[illegible]

FORM 0-26-5 (Det 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

13827 SMYRNA TENNESSEE/SEWART AFB  
STATION STATION NAME

43-45,47,49-66  
YEARS

JUN  
MONTH

PAGE 1 ALL  
HOURS (L S F)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL DB/WB	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb		Wet Bulb	Dew Point	
104/103															.0			1	1			
102/101														.0	.0	.0		11	11			
100/ 99											.0	.1	.2	.1				53	53			
98/ 97									.0	.0	.1	.2	.1	.0	.1	.0		73	75			
96/ 95						.0		.0	.0	.1	.4	.2	.1	.1	.0	.0		159	161			
94/ 93						.0	.0	.0	.3	.6	.4	.2	.1		.1	.0		250	258			
92/ 91							.1	.5	.8	.8	.4	.2	.1	.1				450	471			
90/ 89						.1	.4	.9	1.1	.7	.4	.3	.1	.0				591	608			
88/ 87				.0	.0	.3	.9	1.2	.9	.6	.4	.3	.1					727	740			
86/ 85				.0	.2	1.0	1.4	.9	.6	.5	.4	.1	.0					795	807	1		
84/ 83			.1	.1	.7	1.3	1.1	.8	.5	.5	.3	.0						818	835	1		
82/ 81		.1	.6	1.4	1.2	.9	.7	.6	.4	.2	.0							917	938	9	2	
80/ 79	.0	.0	.3	1.4	1.7	1.2	.8	.6	.6	.4	.1	.0						1060	1086	71	3	
78/ 77		.2	1.0	1.9	1.5	.8	.5	.5	.4	.1	.0							1047	1071	454	28	
76/ 75	.0	.8	2.3	2.0	1.2	.5	.5	.4	.2	.1								1228	1260	1250	128	
74/ 73	.1	1.7	2.6	1.5	.7	.4	.3	.2	.1	.0								1159	1196	1821	523	
72/ 71	.4	2.8	2.6	1.3	.5	.3	.2	.1	.1	.0								1264	1310	2057	1443	
70/ 69	.3	3.6	2.5	1.0	.5	.3	.1	.1	.0									1297	1336	2289	2117	
68/ 67	.4	2.9	1.8	.9	.3	.1	.1	.0	.0									1004	1041	2001	2289	
66/ 65	.4	1.8	1.4	.6	.3	.0	.0	.0										704	731	1617	2052	
64/ 63	.2	1.2	1.1	.5	.1	.0	.0	.0										477	492	1129	1500	
62/ 61	.0	1.1	.8	.4	.1	.0	.0											370	381	820	1068	
60/ 59	.1	1.1	.6	.2	.0	.0												298	307	628	948	
58/ 57	.0	.8	.4	.0	.0													195	198	423	902	
56/ 55	.0	.6	.1	.0	.0													117	119	303	707	
54/ 53	.0	.3	.1	.0														74	82	157	621	
52/ 51		.2	.1	.0														41	41	92	405	
50/ 49	.0	.1	.0															17	17	48	219	
48/ 47	.0	.1																14	14	30	98	
46/ 45	.0	.0																7	7	14	71	
44/ 43	.0	.0																6	6	6	49	
42/ 41		.0																1	1	4	32	
40/ 39		.0																2	2	1	14	
38/ 37		.0																1	1	2	7	
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature										Total	
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F					Total	
Dry Bulb																						
Wet Bulb																						
Dew Point																						

FORM 1210 WS JUL 64 0-26-5 (Rev. 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

JUN  
MONTH

PAGE 2 ALL  
HOURS (L S T.)

[illegible]

## PSYCHROMETRIC SUMMARY

JUL  
MONTH

PAGE 1 ALL  
HOURS (R S T)

[illegible]

## PSYCHROMETRIC SUMMARY

43-45, 49-66

JUL  
MON

PAGE 2 ALL  
HOURS (L S T)

[illegible]

1

AUG  
MONTH

YEARS

HOURS 2 5 11

FORM 0-26.5 (OL) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1

4

AUG  
MON

1941  
STATION

STATION NAME

YEARS

ADD  
MONTH

PAGE 2 ALL  
HOURS (L S T)

[illegible]

FORM 0-26.5 (OLJ)  
JUL 04  
210 WS

DATA PROCESSING DIVISION  
 FTAC, USAF  
 ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

13827  
 STATION

SPYRNA TENNESSEE/SEWART AFB  
 STATION NAME

43-45, 49-66  
 YEARS

SEP  
 MONTH

PAGE 1 ALL  
 HOURS (L S T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL DB WB	TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥31	Dry Bulb	Wet Bulb	Dew Point
104/103																					.0	.0	5	5		
102/101																					.0	.0	6	6		
100/ 99																.0	.0				.0	.0	12	12		
98/ 97																.0	.0	.0	.0		.0	.0	22	22		
96/ 95														.0	.0	.0	.1	.1	.1	.1	.0		63	63		
94/ 93													.0	.0	.1	.2	.2	.1	.2	.0	.0		120	120		
92/ 91										.0	.0	.1	.1	.2	.3	.2	.2	.2	.1	.0	.0		187	187		
90/ 89									.0	.0	.2	.4	.3	.3	.2	.1	.1	.1	.0				259	259		
88/ 87								.0	.3	.6	.6	.6	.5	.4	.2	.1	.0						415	415		
86/ 85							.0	.3	.6	.7	.6	.4	.3	.2	.1	.0							508	508		
84/ 83					.0	.3	.7	.8	.7	.5	.4	.3	.2	.1	.0								580	580		
82/ 81			.0	.2	.5	.7	.7	.6	.5	.4	.4	.1	.0										623	623		
80/ 79			.1	.5	.7	.8	.7	.5	.6	.5	.2	.0											710	710	7	
78/ 77		.4	.9	.9	.8	.6	.7	.6	.3	.1	.0												820	820	78	
76/ 75		.3	1.4	1.3	.9	.7	.8	.7	.4	.2	.1	.0											1010	1010	331	18
74/ 73	.1	1.5	1.7	1.1	.8	.6	.6	.5	.4	.1	.1												1132	1132	871	181
72/ 71	.3	2.2	1.7	1.2	.8	.6	.5	.4	.2	.1	.0												1218	1218	1378	589
70/ 69	.4	2.5	1.8	1.4	.6	.5	.3	.3	.2	.0													1220	1220	1700	1218
68/ 67	.3	2.7	1.8	.8	.7	.4	.3	.2	.1														1125	1125	1596	1333
66/ 65	.5	2.4	1.7	.9	.5	.4	.3	.1	.0														1051	1051	1614	1393
64/ 63	.4	2.3	1.4	.8	.4	.3	.2	.3															867	867	1490	1375
62/ 61	.3	2.0	1.2	.8	.2	.2	.1	.0															729	729	1384	1412
60/ 59	.5	1.9	1.1	.7	.3	.2	.0																701	701	1136	1185
58/ 57	.2	1.4	.8	.4	.1	.0																	452	452	976	1136
56/ 55	.2	1.3	.7	.3	.1	.0																	387	387	800	1162
54/ 53	.1	.6	.5	.2	.0																		271	271	563	911
52/ 51	.0	.8	.4	.2	.0																		203	203	413	825
50/ 49	.0	.6	.3	.0																			147	147	295	648
48/ 47	.0	.4	.1	.0																			107	107	178	519
46/ 45	.0	.2	.1																				63	63	142	404
44/ 43	.0	.4	.0																				63	63	89	302
42/ 41	.1	.1																					25	25	51	253
40/ 39	.0	.1																					12	12	11	139
38/ 37	.0																						4	4	14	60
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No of Hours with Temperature													Total		
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F										
Dry Bulb																										
Wet Bulb																										
Dew Point																										

FORM 1210 WS 0-26-5 (04-50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
 JUL 64

## PSYCHROMETRIC SUMMARY

SEP

**YEARS**

MONTH

PAGE 2 ALL  
HOURS (L.S.T.)

[illegible]

FORM 0-26-5 (Dot 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45,49-66  
YEARS

OCT  
MONTH

PAGE 1 ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL DB/WB	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb		Dew Point		
94/ 93										.0		.0							3	3			
92/ 91									.0	.0		.0	.0						10	10			
90/ 89									.0	.0	.1	.0							33	33			
88/ 87								.0	.1	.1	.0	.0	.0						46	46			
86/ 85					.0	.0	.1	.1	.1	.0	.1	.0	.0	.1					98	98			
84/ 83					.0	.1	.1	.2	.1	.2	.2	.1	.1	.0					175	175			
82/ 81			.0	.0	.1	.1	.2	.2	.3	.3	.2	.1	.0		.0				252	252			
80/ 79				.1	.1	.2	.3	.3	.3	.5	.3	.1	.1						375	375			
78/ 77			.0	.2	.2	.4	.4	.5	.4	.3	.4	.1	.0						449	449	6		
76/ 75		.0	.1	.1	.4	.3	.4	.5	.4	.4	.2	.1							486	486	30	2	
74/ 73		.1	.2	.4	.4	.3	.4	.4	.4	.4	.1	.0	.0						532	532	94	4	
72/ 71	.0	.4	.4	.4	.4	.5	.5	.5	.4	.3	.1	.0	.0						657	657	191	71	
70/ 69	.1	.6	.6	.5	.6	.5	.4	.5	.4	.3	.0	.0							720	720	348	179	
68/ 67	.2	.8	.8	.6	.5	.5	.4	.4	.5	.2	.0	.0							782	784	558	246	
66/ 65	.3	1.0	1.0	.7	.6	.5	.5	.5	.5	.1	.0								915	917	673	414	
64/ 63	.4	1.4	.9	.8	.5	.4	.4	.4	.3	.1	.0								903	906	933	602	
62/ 61	.4	1.4	1.1	.8	.5	.6	.5	.4	.1	.0									918	919	1049	664	
60/ 59	.4	1.6	1.2	1.0	.7	.6	.4	.3	.1	.0									1017	1018	1099	731	
58/ 57	.3	1.6	1.2	.9	.7	.5	.4	.2	.0	.0									925	925	1111	802	
56/ 55	.2	1.7	1.3	.9	.7	.4	.2	.1	.0										899	900	1131	853	
54/ 53	.2	1.7	1.4	1.0	.6	.3	.1	.0											849	851	1079	956	
52/ 51	.4	1.7	1.6	.9	.4	.2	.1	.0											857	862	1186	990	
50/ 49	.4	2.4	1.5	.7	.3	.1	.1	.0											898	905	1217	1020	
48/ 47	.3	1.7	1.1	.5	.2	.1	.1												638	638	1200	1065	
46/ 45	.2	2.0	1.1	.4	.2	.0	.0												631	631	978	1038	
44/ 43	.3	1.7	.9	.3	.1	.1													529	529	807	1094	
42/ 41	.4	1.3	.6	.2	.1	.0													420	420	681	1020	
40/ 39	.3	1.2	.4	.1	.0	.0													341	341	512	973	
38/ 37	.2	1.1	.2	.1	.0														253	253	404	770	
36/ 35	.1	.7	.1	.0	.0														167	167	308	683	
34/ 33	.1	.5	.1	.0	.0														123	123	194	517	
32/ 31	.0	.3	.1	.0															68	68	113	422	
30/ 29	.0	.3	.0	.0															50	50	61	285	
28/ 27	.0	.2																	29	29	61	191	
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature												
Ref. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total						
Dry Bulb																							
Wet Bulb																							
Dew Point																							

FORM 1210 W/S JUL 64 0-26-5 (Oct 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

OCT  
MONTH

PAGE 2 ALL  
HOURS (L S T.)

[illegible]

210 WS JUL 64 0-26-5 (Dot 50) FORM REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

NCV  
MONTH

PAGE 1 ALL  
HOURS (L S T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL DB/WB	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb		Wet Bulb	Dew Point	
84/ 83									.0	.0	.0							7	7			
82/ 81								.0	.0	.0	.0							6	6			
80/ 79					.0	.0	.0	.0	.0	.0	.0							23	23			
78/ 77					.0	.0	.1	.1	.0	.0	.0	.0						47	47			
76/ 75			.0	.0	.0	.1	.1	.1	.1	.0	.0	.0						100	100			
74/ 73		.0		.0	.1	.1	.1	.2	.2	.0	.1	.0	.0					148	148			
72/ 71		.0	.0	.1	.2	.3	.2	.2	.1	.1	.1	.0						222	222	5		
70/ 69		.1	.2	.4	.3	.2	.3	.3	.2	.2	.1							354	354	20	6	
68/ 67		.2	.4	.3	.3	.3	.3	.2	.2	.1	.0							394	394	75	22	
66/ 65	.0	.3	.3	.5	.4	.3	.3	.3	.2	.1	.0							439	439	168	55	
64/ 63	.0	.5	.6	.6	.3	.2	.4	.2	.3	.1	.0							524	524	255	117	
62/ 61	.1	.8	.6	.5	.5	.3	.4	.3	.2	.1								618	618	371	184	
60/ 59	.1	1.0	.7	.8	.5	.4	.4	.4	.1	.0								698	698	518	317	
58/ 57	.1	1.0	.8	.7	.4	.5	.4	.3	.1									693	693	644	384	
56/ 55	.2	1.1	.8	.6	.5	.5	.5	.2	.0									727	727	637	517	
54/ 53	.1	1.0	.7	.8	.7	.7	.5	.2	.0									763	763	702	454	
52/ 51	.1	1.3	.8	.8	.9	.6	.4	.1										806	806	703	513	
50/ 49	.2	1.4	1.2	.8	.8	.7	.2	.0										834	834	783	610	
48/ 47	.1	1.3	1.0	1.2	1.0	.4	.1											818	818	877	601	
46/ 45	.2	1.8	1.3	1.3	.9	.4	.1											947	947	1000	654	
44/ 43	.4	1.9	1.5	.9	.7	.2	.0											893	893	1043	687	
42/ 41	.3	1.7	1.6	1.0	.5	.1												835	835	1072	798	
40/ 39	.2	1.7	1.7	1.0	.4	.1												802	802	1139	780	
38/ 37	.2	1.9	1.7	1.0	.2	.0												801	801	983	831	
36/ 35	.3	1.9	1.9	.7	.1	.0												768	768	965	940	
34/ 33	.2	1.8	1.3	.5	.0													608	608	827	984	
32/ 31	.2	1.8	1.3	.3	.0													574	574	844	1019	
30/ 29	.2	1.9	.9	.1														493	493	703	1013	
28/ 27	.2	1.3	.6	.1														333	333	583	781	
26/ 25	.1	.8	.2	.0														192	192	351	916	
24/ 23	.0	.5	.1	.0														116	116	209	690	
22/ 21	.1	.4	.1															94	94	132	558	
20/ 19	.1	.3	.1															62	62	86	447	
18/ 17	.0	.2	.0															46	46	52	344	
Element (X)	ΣX <sup>2</sup>		ΣX		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb																						
Wet Bulb																						
Dew Point																						

FORM 1210 WS JUL 64 0-26-5 (Dot 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## PSYCHROMETRIC SUMMARY

13827 SMYRNA TENNESSEE/SEHART AFB  
STATION STATION NAME

42-45, 49-66  
YEARS

NCV  
MONTH

PAGE 2 ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL DB /WB	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb		Wet Bulb	Dew Point	
16/ 15	.0	.1	.0															23	23	53	231	
14/ 13		.2																6	6	11	137	
12/ 11		.3																5	5	3	92	
10/ 9		.4																2	2	5	46	
8/ 7		.5																3	3	2	27	
6/ 5		.6																2	2	4	29	
4/ 3		.7																3	3	1	17	
2/ 1		.8																2	2	3	12	
0/- 1		.9																3	3	4	4	
- 2/- 3																				1	2	
- 4/- 5																					4	
- 8/- 9																					2	
-10/-11																					2	
-12/-13																					3	
-14/-15																					3	
-16/-17																					1	
TOTAL	3.6	30.5	22.5	15.0	10.0	6.8	5.1	3.4	1.9	.8	.4	.1	.0					15834	15834	15834	15834	

FORM 1210 WS 0-26-5 (Oct 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

DEC  
MONTH

PAGE 1 ALL  
HOURS (L S T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL DB /WB	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb		Dew Point		
76/ 75					.0	.0	.0											4	4				
74/ 73					.0	.0	.0				.0	.0	.0					9	9				
72/ 71		.0	.0		.0	.0	.0	.0	.0	.0								25	25				
70/ 69		.0	.0	.1	.1	.0	.0	.0	.0	.0	.0							47	47	2			
68/ 67			.1	.2	.1	.0	.0	.0	.0	.0								78	78	9	5		
66/ 65		.0	.2	.3	.2	.0	.0	.0	.1	.0	.0							149	149	15	5		
64/ 63	.0	.1	.3	.4	.2	.1	.1	.1	.1	.0	.0							224	224	62	12		
62/ 61	.1	.5	.5	.2	.1	.1	.1	.1	.0	.0								306	306	148	67		
60/ 59	.3	.6	.4	.3	.2	.2	.2	.1	.1									377	377	303	183		
58/ 57	.2	.9	.5	.3	.2	.2	.3	.3	.0									461	461	286	258		
56/ 55	.2	1.3	.5	.3	.2	.4	.3	.1										518	518	363	309		
54/ 53	.2	1.1	.6	.4	.3	.4	.3	.1										566	566	424	334		
52/ 51	.2	1.1	.4	.4	.6	.4	.3	.0										550	550	431	374		
50/ 49	.3	1.1	.7	.8	.6	.5	.2	.0										671	671	461	384		
48/ 47	.2	1.1	.8	.8	.7	.5	.1	.0										678	678	474	341		
46/ 45	.4	1.4	1.0	1.2	1.0	.3	.0											864	864	650	346		
44/ 43	.5	1.5	1.4	1.0	.7	.2	.0											864	864	877	445		
42/ 41	.9	1.6	1.3	1.0	.7	.1												902	902	928	603		
40/ 39	.6	1.6	1.9	1.2	.6	.1												985	985	1025	616		
38/ 37	.5	2.1	1.8	1.2	.3													959	961	1008	655		
36/ 35	.5	3.3	2.1	1.0	.2													1163	1167	1174	730		
34/ 33	.5	2.7	2.0	.6	.1													955	955	1174	939		
32/ 31	.7	3.0	2.0	.6	.0													1042	1042	1243	1153		
30/ 29	.3	2.5	1.6	.4	.0													791	791	1058	1150		
28/ 27	.3	2.8	1.4	.2														776	776	960	897		
26/ 25	.2	2.4	1.1	.1														616	616	791	1012		
24/ 23	.4	1.7	.6	.0														437	437	713	1003		
22/ 21	.3	1.5	.5															381	382	457	899		
20/ 19	.2	1.3	.3															297	297	422	711		
18/ 17	.2	1.0	.1															221	221	297	621		
16/ 15	.3	.6	.0															148	148	234	607		
14/ 13	.1	.4	.0															83	83	117	427		
12/ 11	.1	.3																70	70	82	337		
10/ 9	.2	.1	.0															55	55	75	218		
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total						
Dry Bulb																							
Wet Bulb																							
Dew Point																							

FORM 1210 WS JUL 64 0-26-5 (Rev 50) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## PSYCHROMETRIC SUMMARY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

42-45, 49-66  
YEARS

DEC  
MONTH

PAGE 2 ALL  
HOURS (L S T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL DB/WB	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
8/ 7	.1	.1																30	30	32	221
6/ 5	.1	.2																13	13	17	198
4/ 3	.0	.0																9	9	11	144
2/ 1	.0	.0																5	5	5	73
0/- 1	.0	.0																2	2	3	26
- 2/- 3	.0	.0																4	4	4	8
- 4/- 5	.0	.0																6	6	4	5
- 6/- 7	.0	.0																3	3	5	3
- 8/- 9	.0																	6	6	6	6
-10/-11	.0																	2	2	2	7
-12/-13																					5
-14/-15																					7
-16/-17																					7
-20/-21																					1
TOTAL	9.1	39.8	24.2	13.0	7.1	3.6	1.9	.9	.3	.1	.0	.0	.0					16352	16359	16352	16352
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$	$\sigma_x$	No. Obs.		Mean No. of Hours with Temperature												Total
Rel. Hum.	91774989		1185823		72.5	17.662	16352		≤ 50 F	≤ 52 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F							744.0
Dry Bulb	27991896		645064		39.4	12.500	16359		1.0	227.3	7.4	.6									744.0
Wet Bulb	23389628		589360		36.0	11.461	16352		1.1	297.5	.5										744.0
Dew Point	18137207		499557		30.6	13.262	16352		3.4	443.4	.2										744.0

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13827 SMYRNA TENNESSEE/SEWART AFB

42-47,49-66

STATION		STATION NAME												YEARS
HRS (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	36.0	37.5	43.1	52.9	60.9	68.3	71.6	70.5	64.0	52.2	43.2	36.0	52.9
	S D	13.153	12.589	11.418	10.096	7.905	6.185	4.660	5.099	7.558	9.690	11.480	12.281	16.401
	TOTAL OBS	2103	1863	2046	1980	2028	1960	1953	1953	1890	2008	1978	2045	23807
03-05	MEAN	34.8	36.0	41.4	50.9	58.9	66.5	69.8	68.6	61.9	50.2	41.6	34.9	51.1
	S D	13.575	12.805	11.853	10.395	8.121	6.286	4.812	5.296	7.928	10.064	11.909	12.483	16.402
	TOTAL OBS	2101	1863	2046	1980	2026	1956	1952	1950	1890	2009	1979	2046	23798
06-08	MEAN	34.5	36.2	42.7	54.5	64.5	72.4	74.8	72.7	65.3	52.5	42.2	34.9	53.8
	S D	13.636	12.884	11.891	10.142	8.401	6.980	5.509	6.103	8.168	10.106	11.802	12.487	18.120
	TOTAL OBS	2101	1861	2045	1980	2027	1955	1951	1953	1890	2010	1980	2046	23799
09-11	MEAN	39.9	43.1	50.4	63.0	73.5	81.0	83.4	82.5	75.9	64.6	51.1	41.1	62.3
	S D	12.994	12.540	12.117	10.396	8.846	7.085	5.607	6.193	7.712	9.797	11.632	11.612	18.967
	TOTAL OBS	2102	1863	2046	1978	2028	1959	1951	1953	1890	2010	1979	2046	23805
12-14	MEAN	44.7	48.4	55.2	67.2	77.4	84.5	87.0	86.7	80.7	70.4	56.7	46.0	66.9
	S D	12.917	12.662	12.349	10.784	9.127	7.424	6.005	6.314	7.867	10.011	12.070	11.574	18.690
	TOTAL OBS	2102	1862	2045	1980	2027	1958	1953	1951	1889	2009	1978	2039	23793
15-17	MEAN	44.6	48.8	55.6	67.5	77.3	84.1	86.4	86.0	80.1	69.1	55.1	45.0	66.4
	S D	12.387	12.315	11.900	10.772	8.984	7.543	6.378	6.499	7.957	9.892	11.628	11.257	18.516
	TOTAL OBS	2103	1862	2045	1980	2029	1958	1952	1953	1889	2012	1980	2046	23809
18-20	MEAN	39.9	43.3	50.2	61.4	70.9	78.2	80.6	79.3	72.3	59.8	48.0	39.9	60.1
	S D	12.061	11.737	10.927	9.955	8.258	6.910	5.635	5.853	7.448	8.972	10.782	11.035	17.768
	TOTAL OBS	2101	1862	2043	1978	2028	1956	1953	1953	1890	2013	1980	2046	23803
21-23	MEAN	37.5	39.8	45.9	56.1	64.5	71.8	74.8	73.5	66.7	54.8	44.5	37.6	55.4
	S D	12.629	12.211	10.948	9.728	7.507	6.009	4.601	5.079	7.352	9.104	11.103	11.734	16.671
	TOTAL OBS	2099	1861	2046	1979	2025	1955	1953	1952	1889	2011	1980	2045	23795
ALL HOURS	MEAN	39.0	41.7	48.1	59.2	68.5	75.9	78.5	77.5	70.8	59.2	47.8	39.4	58.6
	S D	13.465	13.356	12.803	11.929	10.804	9.475	8.298	8.831	10.401	12.252	12.809	12.500	18.638
	TOTAL OBS	16812	14897	16362	15035	16218	15657	15618	15618	15117	16082	15834	16359	190409

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13827

SMYRNA TENNESSEE/SEWART AFB

42-47,49-66

STATION		STATION NAME												YEARS
HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
00-02	MEAN	33.6	35.6	40.3	48.9	58.0	65.3	68.5	67.6	61.0	49.6	40.2	33.8	50.1
	S. D.	12.534	11.936	10.785	9.526	7.545	5.715	4.511	4.834	7.234	9.487	10.816	11.719	15.918
	TOTAL OBS	2037	1779	1953	1890	2025	1906	1950	1953	1890	2005	1978	2043	23409
03-05	MEAN	32.7	34.5	39.1	47.6	56.6	64.2	67.5	66.5	59.7	48.2	39.1	33.0	49.0
	S. D.	13.003	12.090	11.226	9.881	7.817	5.990	4.768	5.175	7.680	9.850	11.290	12.003	16.077
	TOTAL OBS	2035	1775	1950	1888	2023	1902	1950	1950	1890	2006	1979	2043	23391
06-08	MEAN	32.4	34.6	40.0	49.8	59.8	67.3	70.0	68.5	61.6	49.7	39.5	33.0	50.5
	S. D.	13.181	12.280	11.212	9.650	7.595	5.647	4.446	5.025	7.424	9.678	11.214	12.021	16.864
	TOTAL OBS	2034	1774	1950	1888	2024	1901	1948	1953	1890	2007	1980	2044	23393
09-11	MEAN	36.3	39.1	44.4	53.9	63.4	70.1	72.7	71.9	66.0	56.0	44.9	37.3	54.6
	S. D.	12.301	11.410	10.674	9.220	7.297	5.315	3.901	4.210	6.210	8.453	10.355	10.922	16.033
	TOTAL OBS	2039	1779	1953	1888	2025	1905	1951	1953	1890	2007	1979	2046	23415
12-14	MEAN	39.3	42.3	46.8	55.5	64.4	70.6	73.1	72.3	67.0	57.9	47.6	40.1	56.3
	S. D.	11.631	10.860	10.194	8.811	6.965	5.068	3.905	4.071	5.803	8.075	9.982	10.357	14.986
	TOTAL OBS	2036	1772	1952	1890	2024	1904	1953	1952	1889	2006	1978	2039	23401
15-17	MEAN	39.3	42.5	47.0	55.5	64.3	70.3	72.7	72.0	66.6	57.2	46.7	39.6	56.1
	S. D.	11.299	10.553	9.822	8.567	6.725	4.900	3.833	3.977	5.668	7.974	9.819	10.235	14.807
	TOTAL OBS	2041	1779	1953	1890	2026	1904	1950	1952	1889	2009	1980	2046	23419
18-20	MEAN	36.5	39.6	44.5	53.2	62.6	69.1	71.7	70.6	64.5	53.7	43.1	36.6	53.7
	S. D.	11.560	10.951	9.907	8.701	6.874	5.005	3.908	4.138	6.267	8.519	10.116	10.609	15.529
	TOTAL OBS	2037	1775	1951	1889	2028	1905	1950	1953	1890	2010	1980	2046	23414
21-23	MEAN	34.7	37.3	42.2	50.8	60.1	67.2	70.0	68.9	62.4	51.1	41.0	35.0	51.7
	S. D.	12.036	11.556	10.331	9.078	7.104	5.287	4.203	4.522	6.840	9.002	10.468	11.224	15.774
	TOTAL OBS	2034	1777	1953	1890	2025	1901	1949	1952	1889	2008	1980	2045	23403
ALL HOURS	MEAN	35.6	38.2	43.0	51.9	61.2	68.0	70.8	69.8	63.6	52.9	42.8	36.0	52.8
	S. D.	12.471	11.852	10.917	9.617	7.753	5.825	4.636	4.967	7.179	9.580	10.969	11.461	15.980
	TOTAL OBS	16293	14216	15615	15113	16200	15228	15601	15618	15117	16058	14834	16352	187245



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13827

SMYRNA TENNESSEE/SEWART AFB

42-47,49-66

STATION		STATION NAME												YEARS											
HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL											
00-02	MEAN	29.5	31.6	36.1	45.1	56.0	63.8	67.0	66.1	59.1	47.1	36.4	29.7	47.2											
	S D	14.182	13.508	12.297	10.665	8.119	6.021	5.077	5.258	7.806	10.510	12.071	13.156	17.431											
	TOTAL OBS	2034	1779	1953	1890	2025	1906	1950	1953	1890	2005	1978	2043	23406											
03-05	MEAN	29.0	30.8	35.3	44.4	55.0	63.0	66.4	65.4	58.2	46.2	35.6	29.3	46.5											
	S D	14.486	13.464	12.509	10.889	8.261	6.217	5.151	5.475	8.064	10.602	12.428	13.379	17.492											
	TOTAL OBS	2032	1775	1950	1888	2023	1902	1950	1950	1890	2006	1979	2043	23388											
06-08	MEAN	28.8	31.0	35.9	45.5	56.8	64.7	67.7	66.5	59.3	47.1	35.8	29.4	47.3											
	S D	14.773	13.716	12.687	11.335	8.533	6.046	5.116	5.364	7.954	10.516	12.419	13.454	18.013											
	TOTAL OBS	2032	1774	1950	1888	2024	1901	1948	1953	1890	2007	1980	2044	23391											
09-11	MEAN	30.7	32.9	36.7	45.9	57.1	64.8	67.9	66.9	60.3	49.0	37.7	31.3	48.4											
	S D	14.644	13.688	13.315	12.355	9.545	6.752	5.486	5.602	8.270	10.997	12.741	13.249	17.738											
	TOTAL OBS	2039	1779	1953	1888	2025	1905	1951	1953	1890	2007	1979	2046	23415											
12-14	MEAN	31.4	33.4	36.7	45.4	56.3	63.6	66.8	65.5	59.2	47.8	37.5	31.5	47.9											
	S D	14.563	13.940	13.606	12.627	9.638	7.051	6.129	6.219	8.672	11.721	13.083	13.544	17.424											
	TOTAL OBS	2036	1778	1952	1890	2024	1904	1953	1952	1889	2006	1978	2039	23401											
15-17	MEAN	31.6	33.5	36.6	45.1	56.2	63.3	66.3	65.3	58.8	47.4	37.2	31.5	47.7											
	S D	14.406	13.900	13.581	12.323	9.441	7.056	6.341	6.387	8.653	11.680	12.847	13.312	17.249											
	TOTAL OBS	2041	1779	1953	1890	2026	1904	1950	1953	1889	2009	1980	2046	23420											
18-20	MEAN	31.0	33.4	37.1	45.9	57.3	64.5	67.4	66.4	59.9	48.4	37.1	31.2	48.2											
	S D	13.959	13.609	12.739	11.371	8.767	6.477	5.837	5.684	8.008	10.747	12.268	12.824	17.317											
	TOTAL OBS	2037	1775	1951	1889	2028	1905	1950	1953	1890	2010	1980	2046	23414											
21-23	MEAN	30.2	32.7	37.1	46.0	57.3	64.8	67.7	66.6	59.8	47.8	36.4	30.5	48.0											
	S D	13.922	13.447	12.186	10.701	8.096	5.851	5.224	5.254	7.714	10.469	12.071	12.942	17.405											
	TOTAL OBS	2034	1777	1953	1890	2025	1901	1949	1952	1889	2008	1980	2045	23403											
ALL HOURS	MEAN	30.3	32.4	36.4	45.4	56.5	64.1	67.2	66.1	59.3	47.6	36.7	30.6	47.6											
	S D	14.408	13.697	12.886	11.565	8.850	6.484	5.594	5.699	8.172	10.943	12.514	13.262	17.519											
	TOTAL OBS	16285	14216	15615	15113	16200	15228	15601	15619	15117	16058	15834	16352	187238											

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

## RELATIVE HUMIDITY

13827

SMYRNA TENNESSEE/SEWART AFB

42-47,49-66

ALL

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.9	98.9	95.3	88.0	76.4	60.2	39.8	18.6	73.3	16285
FEB		100.0	99.9	97.9	92.0	82.7	71.4	56.4	37.5	16.8	71.0	14216
MAR		100.0	99.4	94.8	86.9	76.3	63.2	47.2	29.4	12.1	66.5	15615
APR		100.0	99.4	94.0	83.9	71.9	58.1	41.5	26.0	10.2	64.1	15113
MAY		100.0	99.9	97.4	89.4	78.3	65.9	52.7	35.9	13.4	68.9	16200
JUN		100.0	100.0	98.9	91.9	80.2	67.2	53.7	37.3	13.4	69.9	15228
JUL		100.0	99.8	98.6	93.2	82.8	69.6	55.4	39.9	15.2	71.1	15601
AUG		100.0	99.9	98.5	93.0	81.6	69.1	55.8	40.8	15.7	71.2	15619
SEP		100.0	99.8	97.3	89.9	79.2	68.0	55.8	41.4	16.3	70.5	15117
OCT		100.0	99.5	95.1	86.9	77.2	67.0	54.9	38.7	17.2	69.4	16058
NOV		100.0	99.6	96.5	89.8	79.8	67.1	50.5	32.8	12.3	68.4	15834
DEC		100.0	99.9	98.7	94.5	86.4	74.9	59.2	39.1	16.8	72.5	16352
TOTALS		100.0	99.8	97.2	90.6	80.4	68.2	53.7	36.6	14.8	69.8	187238

DATA PROCESSING DIVISION  
ETAC, USAF  
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## RELATIVE HUMIDITY

13827

SMYRNA TENNESSEE/SEWART AFB

43-47,49-66

JAN

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	99.7	96.8	89.1	73.1	49.3	23.0	78.8	2034
	03-05	100.0	100.0	100.0	100.0	98.5	93.2	78.4	54.0	24.0	80.4	2032
	06-08	100.0	100.0	100.0	99.8	98.9	93.3	78.8	54.9	24.0	80.7	2032
	09-11	100.0	100.0	99.6	96.3	88.2	73.0	54.4	33.8	16.0	71.7	2039
	12-14	100.0	99.8	96.1	84.9	68.5	51.1	36.5	24.6	12.6	63.0	2036
	15-17	100.0	99.6	96.1	86.1	69.7	52.1	38.3	25.0	12.5	63.5	2041
	18-20	100.0	100.0	99.9	97.0	89.1	75.0	55.2	33.9	16.4	72.3	2037
	21-23	100.0	100.0	100.0	98.8	94.8	84.5	66.8	42.7	20.1	76.4	2034
TOTALS		100.0	99.9	98.9	95.3	88.0	76.4	60.2	39.8	18.6	73.3	16285

## RELATIVE HUMIDITY

FEB

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	99.9	98.8	96.6	88.9	74.0	50.5	22.1	78.6	1779
	03-05	100.0	100.0	100.0	99.5	97.4	91.7	78.5	55.5	25.9	80.5	1775
	06-08	100.0	100.0	99.9	99.4	97.9	91.7	78.4	55.1	23.0	80.1	1774
	09-11	100.0	100.0	99.2	93.5	81.4	65.1	47.0	28.1	11.7	68.2	1779
	12-14	100.0	99.6	92.8	77.7	58.0	43.6	31.2	19.2	8.8	58.6	1778
	15-17	100.0	99.3	91.9	74.0	55.6	43.2	31.4	20.9	10.1	58.2	1779
	18-20	100.0	100.0	99.2	94.4	82.1	64.3	47.0	30.1	14.1	68.7	1775
	21-23	100.0	100.0	99.9	98.7	92.9	82.8	63.9	40.7	18.7	75.4	1777
TOTALS		100.0	99.9	97.9	92.0	82.7	71.4	56.4	37.5	16.8	71.0	14216

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## RELATIVE HUMIDITY

13827

SMYRNA TENNESSEE/SEWART AFB

43-45,49-66

MAR

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	99.9	98.8	95.6	84.2	65.9	41.8	17.1	76.0	1953
	03-05	100.0	100.0	100.0	99.5	96.7	89.9	74.5	48.3	22.3	78.7	1950
	06-08	100.0	100.0	99.9	99.3	95.3	84.7	68.4	44.3	18.5	76.5	1950
	09-11	100.0	99.8	95.7	83.6	67.3	50.2	33.8	19.6	6.8	61.3	1953
	12-14	100.0	98.2	84.5	66.0	48.5	35.8	23.5	13.9	5.0	53.1	1952
	15-17	100.0	97.9	81.9	62.8	46.6	34.4	23.1	14.7	6.3	52.3	1953
	18-20	100.0	99.7	96.8	87.1	69.7	51.8	34.9	21.2	8.3	62.6	1951
	21-23	100.0	100.0	99.8	97.8	90.5	74.6	53.3	31.9	12.4	71.6	1953
TOTALS		100.0	99.4	94.8	86.9	76.3	63.2	47.2	29.4	12.1	66.5	15615

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## RELATIVE HUMIDITY

13827

SMYRNA TENNESSEE/SEWART AFB

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APR

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	100.0	98.9	95.4	86.1	66.3	45.1	15.6	76.3	1890
	03-05	100.0	100.0	100.0	99.5	96.5	90.8	75.9	54.5	24.4	79.8	1888
	06-08	100.0	99.9	99.6	97.9	92.7	80.4	58.3	34.3	13.5	73.3	1888
	09-11	100.0	99.8	94.2	79.1	58.6	39.4	22.4	12.2	5.0	56.5	1888
	12-14	100.0	97.7	82.2	59.6	39.8	26.1	16.4	9.0	3.5	49.0	1890
	15-17	100.0	97.8	80.2	55.0	38.1	24.3	15.6	9.8	4.1	48.2	1890
	18-20	100.0	99.7	96.2	84.4	64.0	44.0	27.2	15.8	5.6	59.2	1889
	21-23	100.0	100.0	99.8	97.0	90.3	72.9	50.0	27.6	9.7	70.3	1890
TOTALS		100.0	99.4	94.0	83.9	71.9	58.1	41.5	26.0	10.2	64.1	15113

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## RELATIVE HUMIDITY

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STATION

SMYRNA TENNESSEE/SEWART AFB

STATION NAME

43-45,47,49-66

PERIOD

MAY

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	100.0	100.0	99.6	97.8	91.0	69.3	27.3	84.3	2025
	03-05	100.0	100.0	100.0	100.0	99.9	98.7	94.3	80.1	40.7	87.1	2023
	06-08	100.0	100.0	100.0	99.4	97.1	88.4	70.9	45.6	13.8	77.2	2024
	09-11	100.0	100.0	98.1	87.5	66.3	40.6	23.2	11.6	2.9	58.6	2025
	12-14	100.0	99.6	91.6	69.0	43.8	25.0	14.1	6.5	1.5	50.8	2024
	15-17	100.0	99.7	90.7	68.1	44.0	26.1	15.5	8.0	2.1	50.9	2026
	18-20	100.0	100.0	98.9	91.8	77.9	58.2	36.7	18.9	5.2	64.3	2028
	21-23	100.0	100.0	100.0	99.8	97.9	92.1	75.7	47.3	14.0	78.3	2025
TOTALS		100.0	99.9	97.4	89.4	78.3	65.9	52.7	35.9	13.4	68.9	16200

## RELATIVE HUMIDITY

JUN

**MONTH**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	100.0	100.0	99.9	99.1	94.2	76.7	28.5	85.7	1906
	03-05	100.0	100.0	100.0	100.0	99.9	99.7	98.1	85.9	41.6	88.5	1902
	06-08	100.0	100.0	100.0	100.0	98.6	92.5	73.3	45.1	12.0	77.8	1901
	09-11	100.0	100.0	99.5	92.7	73.0	44.1	21.3	8.3	1.9	59.6	1905
	12-14	100.0	99.9	96.5	75.9	46.4	23.7	11.6	5.5	1.6	51.6	1904
	15-17	100.0	99.8	95.5	72.7	44.5	26.8	15.4	7.6	2.4	52.1	1904
	18-20	100.0	100.0	99.5	94.0	79.4	57.8	37.6	19.2	5.7	64.9	1905
	21-23	100.0	100.0	100.0	100.0	99.5	94.3	78.1	49.9	13.8	79.2	1901
TOTALS		100.0	100.0	98.9	91.9	80.2	67.2	53.7	37.3	13.4	69.9	15228



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## RELATIVE HUMIDITY

13827  
STATION

SMYRNA TENNESSEE/SEWART AFB  
STATION NAME

43-45,49-66  
PERIOD

JUL  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	100.0	99.8	97.7	93.1	78.9	34.1	86.1	1950
	03-05	100.0	100.0	100.0	100.0	99.9	99.4	97.1	88.7	45.1	89.2	1950
	06-08	100.0	100.0	100.0	99.9	98.1	93.1	79.8	53.1	12.9	79.5	1948
	09-11	100.0	100.0	98.9	93.4	78.7	52.1	24.9	8.5	1.9	61.3	1951
	12-14	100.0	99.6	96.2	80.5	53.2	27.8	13.0	5.8	2.0	53.3	1953
	15-17	100.0	99.3	95.0	78.4	52.9	30.4	15.8	8.8	2.2	53.8	1950
	18-20	100.0	99.8	98.7	93.8	82.3	64.2	41.7	21.4	6.4	66.3	1950
	21-23	100.0	100.0	99.9	99.5	97.5	92.3	78.3	53.8	17.0	79.4	1949
TOTALS		100.0	99.8	98.6	93.2	82.8	69.6	55.4	39.9	15.2	71.1	15601

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## RELATIVE HUMIDITY

13827

SMYRNA TENNESSEE/SEWART AFB

43-45,49-66

AUG

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	100.0	100.0	99.9	99.3	94.0	78.8	31.9	86.4	1953
	03-05	100.0	100.0	100.0	100.0	100.0	99.9	97.9	89.4	47.3	89.7	1950
	06-08	100.0	100.0	100.0	99.9	99.3	95.8	83.8	60.2	18.8	81.6	1953
	09-11	100.0	100.0	99.1	94.0	77.0	49.2	23.9	9.5	2.2	61.0	1953
	12-14	100.0	99.8	95.3	77.8	46.6	23.5	11.0	5.2	1.4	51.5	1952
	15-17	100.0	99.8	94.2	76.9	46.9	28.0	14.8	7.9	2.4	52.5	1953
	18-20	100.0	99.9	99.5	95.6	84.1	63.7	41.0	21.4	5.8	66.6	1953
	21-23	100.0	100.0	100.0	100.0	98.8	93.8	80.2	54.0	15.6	79.9	1952
TOTALS		100.0	99.9	98.5	93.0	81.6	69.1	55.8	40.8	15.7	71.2	15619

## RELATIVE HUMIDITY

SEP

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	100.0	99.5	96.3	88.7	74.3	29.1	84.8	1890
	03-05	100.0	100.0	100.0	100.0	99.8	98.7	94.6	83.3	42.4	88.0	1890
	06-08	100.0	100.0	100.0	99.8	98.5	93.6	83.0	62.2	24.2	82.0	1890
	09-11	100.0	99.9	98.5	89.7	69.6	48.3	27.9	14.8	4.2	60.7	1890
	12-14	100.0	99.3	90.9	68.3	42.5	24.9	15.1	8.7	2.2	50.8	1889
	15-17	100.0	99.1	90.0	67.3	43.4	27.1	18.3	10.6	3.1	51.5	1889
	18-20	100.0	100.0	99.2	94.4	83.1	64.0	42.2	24.7	8.2	67.2	1890
	21-23	100.0	100.0	100.0	99.9	97.6	91.5	76.7	52.6	16.7	79.4	1889
TOTALS		100.0	99.8	97.3	89.9	79.2	68.0	55.8	41.4	16.3	70.5	15117

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# RELATIVE HUMIDITY

13827

SMYRNA TENNESSEE/SEWART AFB

42-45,49-66

OCT

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	99.9	99.5	98.2	95.4	86.9	67.6	30.5	83.6	2005
	03-05	100.0	100.0	100.0	99.9	99.1	97.0	92.4	76.7	41.2	86.5	2006
	06-08	100.0	100.0	100.0	99.5	98.4	94.5	85.2	61.7	27.1	82.6	2007
	09-11	100.0	99.8	96.6	84.6	66.0	43.9	26.8	14.5	5.4	59.3	2007
	12-14	100.0	97.9	81.9	57.6	35.9	22.7	14.3	8.4	3.2	47.9	2006
	15-17	100.0	98.3	83.7	60.2	39.6	26.1	15.8	10.2	4.5	49.4	2009
	18-20	100.0	100.0	99.5	95.2	83.6	67.1	43.4	22.4	8.3	67.6	2010
	21-23	100.0	100.0	99.7	99.0	96.8	89.5	74.6	48.2	17.5	78.2	2008
TOTALS		100.0	99.5	95.1	86.9	77.2	67.0	54.9	38.7	17.2	69.4	16058

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# RELATIVE HUMIDITY

13827

SMYRNA TENNESSEE/SEWART AFB

42-45, 49-66

NOV

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	100.0	99.8	98.9	95.3	89.1	72.1	48.7	18.1	77.8	1978
	03-05	100.0	100.0	99.9	99.6	97.3	91.3	78.5	56.5	22.5	80.1	1979
	06-08	100.0	100.0	100.0	99.6	96.9	90.7	74.8	52.2	20.7	79.0	1980
	09-11	100.0	99.8	97.3	88.3	70.9	51.8	33.4	19.6	7.1	62.5	1979
	12-14	100.0	98.5	86.5	66.6	46.0	30.4	19.6	11.5	4.7	51.9	1978
	15-17	100.0	98.5	89.8	72.3	52.8	35.1	21.8	11.9	4.8	54.3	1980
	18-20	100.0	100.0	99.1	95.2	85.8	66.2	42.5	23.0	7.9	67.6	1980
	21-23	100.0	100.0	99.7	97.9	93.4	82.2	61.6	38.5	12.4	74.3	1980
TOTALS		100.0	99.6	96.5	89.8	79.8	67.1	50.5	32.8	12.3	68.4	15834

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

## RELATIVE HUMIDITY

13827

SMYRNA TENNESSEE/SEWART AFB

42-45,49-66

DEC

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	99.9	99.1	96.9	89.8	74.4	49.1	21.0	78.7	2043
	03-05	100.0	100.0	100.0	99.6	97.8	92.5	80.5	56.4	23.7	80.5	2043
	06-08	100.0	100.0	100.0	99.7	98.2	92.9	80.4	57.9	23.9	80.8	2044
	09-11	100.0	100.0	99.5	95.6	84.7	68.2	49.4	29.8	12.4	69.7	2046
	12-14	100.0	99.4	95.0	81.5	61.1	44.7	31.7	20.9	8.1	59.9	2039
	15-17	100.0	99.8	96.0	84.6	66.5	49.5	34.7	22.4	10.5	61.9	2046
	18-20	100.0	100.0	99.7	97.4	91.1	75.9	54.9	32.1	15.1	72.1	2046
	21-23	100.0	100.0	99.8	98.9	94.7	85.3	68.0	43.9	19.9	76.6	2045
TOTALS		100.0	99.9	98.7	94.5	86.4	74.9	59.2	39.1	16.8	72.5	16352

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

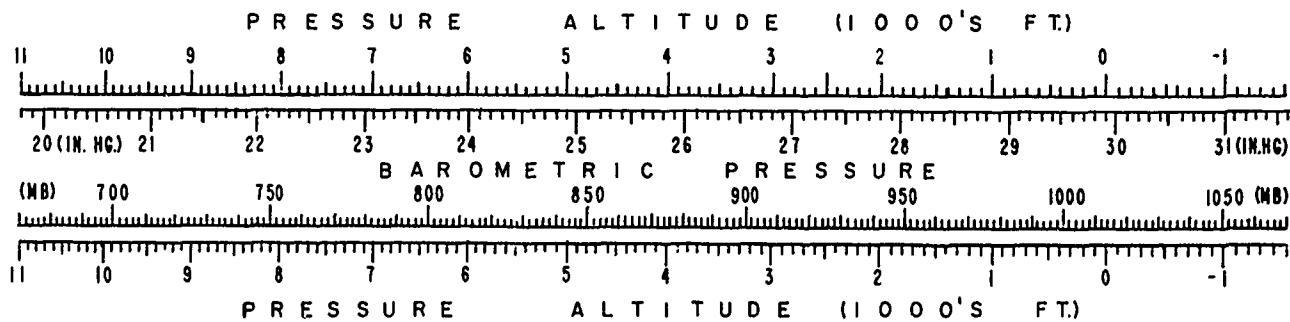
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

13827

SMYRNA TENNESSEE/SEWART AFB

46-47,49-63

STATION		STATION NAME												YEARS	
HRS (LST)		JAN	FEB.	MAR	APR.	MAY	JUN.	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
00	MEAN	29.557	29.511	29.450	29.430	29.430	29.410	29.451	29.440	29.475	29.512	29.531	29.563	29.481	
	S. D.	.204	.218	.196	.174	.117	.096	.079	.081	.106	.148	.182	.199	.166	
	TOTAL OBS	525	451	496	480	496	474	465	465	480	496	480	496	5804	
03	MEAN	29.564	29.504	29.441	29.423	29.426	29.407	29.445	29.435	29.473	29.511	29.532	29.567	29.478	
	S. D.	.206	.224	.197	.178	.121	.098	.081	.084	.110	.151	.187	.203	.171	
	TOTAL OBS	525	451	496	480	496	474	465	465	480	496	480	496	5804	
06	MEAN	29.577	29.521	29.467	29.455	29.461	29.441	29.477	29.467	29.504	29.538	29.551	29.578	29.504	
	S. D.	.208	.228	.199	.186	.127	.102	.084	.088	.112	.153	.191	.204	.172	
	TOTAL OBS	525	451	496	480	496	474	465	465	480	496	480	496	5804	
09	MEAN	29.610	29.549	29.492	29.473	29.476	29.453	29.494	29.485	29.525	29.564	29.580	29.609	29.527	
	S. D.	.211	.231	.202	.191	.127	.106	.084	.094	.112	.156	.192	.208	.176	
	TOTAL OBS	525	451	496	480	495	474	465	465	480	496	480	496	5803	
12	MEAN	29.567	29.520	29.467	29.444	29.447	29.427	29.466	29.453	29.489	29.520	29.539	29.566	29.493	
	S. D.	.212	.227	.196	.186	.123	.103	.082	.088	.106	.151	.187	.202	.170	
	TOTAL OBS	525	451	496	480	496	474	465	465	480	496	480	496	5804	
15	MEAN	29.539	29.479	29.425	29.404	29.409	29.391	29.426	29.410	29.445	29.481	29.510	29.539	29.456	
	S. D.	.209	.224	.192	.180	.117	.097	.081	.086	.106	.147	.183	.196	.168	
	TOTAL OBS	525	451	496	480	496	474	465	465	480	496	480	496	5804	
18	MEAN	29.555	29.492	29.428	29.402	29.404	29.384	29.418	29.406	29.448	29.490	29.526	29.554	29.460	
	S. D.	.207	.220	.192	.173	.113	.093	.078	.084	.105	.144	.182	.193	.168	
	TOTAL OBS	525	450	496	480	496	473	465	465	480	496	480	496	5802	
21	MEAN	29.565	29.508	29.449	29.432	29.432	29.411	29.448	29.438	29.478	29.511	29.542	29.565	29.482	
	S. D.	.208	.219	.194	.172	.112	.093	.079	.084	.104	.145	.182	.191	.166	
	TOTAL OBS	524	451	495	480	496	473	465	465	480	496	480	495	5800	
ALL HOURS	MEAN	29.567	29.511	29.452	29.433	29.436	29.416	29.453	29.442	29.480	29.516	29.539	29.568	29.485	
	S. D.	.209	.225	.197	.182	.122	.101	.084	.090	.110	.151	.187	.200	.171	
	TOTAL OBS	4199	3607	3967	3840	3967	3790	3720	3720	3840	3968	3840	3967	46425	



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

13027

SMYRNA TENNESSEE/SEWART AFB

46-47,49-63

STATION		STATION NAME												YEARS	
HRS. (LST)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
00	MEAN	1020.6	1019.0	1016.8	1015.8	1015.7	1014.8	1016.2	1015.9	1017.1	1018.6	1019.6	1020.9	1017.6	
	S. D.	7.420	7.695	6.930	6.065	4.114	3.318	2.750	2.833	3.746	5.011	6.461	7.066	5.919	
	TOTAL OBS	490	451	495	480	489	473	465	465	450	465	450	465	5638	
03	MEAN	1020.7	1018.8	1016.5	1015.6	1015.6	1014.8	1016.0	1015.7	1017.0	1018.6	1019.6	1021.0	1017.5	
	S. D.	7.470	7.865	6.972	6.197	4.206	3.364	2.790	2.898	3.839	5.120	6.633	7.194	6.042	
	TOTAL OBS	490	451	496	480	489	470	465	465	450	465	450	465	5636	
06	MEAN	1021.3	1019.4	1017.4	1016.8	1016.8	1015.9	1017.1	1016.8	1018.2	1019.6	1020.3	1021.4	1018.4	
	S. D.	7.548	8.025	7.010	6.476	4.449	3.502	2.883	3.050	3.930	5.196	6.800	7.248	6.079	
	TOTAL OBS	490	451	496	480	489	472	465	465	450	464	450	465	5637	
09	MEAN	1022.4	1020.4	1018.3	1017.4	1017.3	1016.3	1017.7	1017.4	1018.9	1020.5	1021.3	1022.5	1019.2	
	S. D.	7.690	8.133	7.107	6.652	4.423	3.633	2.897	3.168	3.935	5.291	6.819	7.379	6.235	
	TOTAL OBS	490	451	496	480	489	472	465	465	450	465	450	465	5638	
12	MEAN	1020.9	1019.3	1017.3	1016.3	1016.3	1015.4	1016.7	1016.3	1017.6	1018.9	1019.8	1021.0	1018.0	
	S. D.	7.712	7.981	6.917	6.466	4.291	3.568	2.851	3.077	3.761	5.137	6.648	7.171	6.045	
	TOTAL OBS	490	451	495	480	490	470	465	465	450	465	450	465	5636	
15	MEAN	1019.9	1018.0	1015.9	1015.0	1015.0	1014.2	1015.4	1014.8	1016.1	1017.6	1018.8	1020.0	1016.7	
	S. D.	7.549	7.832	6.781	6.236	4.098	3.359	2.805	3.010	3.721	4.978	6.488	6.925	5.943	
	TOTAL OBS	491	450	496	480	490	469	465	465	450	465	450	465	5636	
18	MEAN	1020.5	1018.4	1016.1	1014.9	1014.8	1014.0	1015.1	1014.7	1016.2	1017.9	1019.5	1020.7	1016.9	
	S. D.	7.490	7.768	6.773	6.026	3.943	3.204	2.694	2.898	3.664	4.894	6.465	6.833	5.983	
	TOTAL OBS	491	451	496	480	490	471	465	465	450	465	450	465	5639	
21	MEAN	1020.9	1019.0	1016.8	1015.9	1015.8	1014.9	1016.1	101	1017.2	1018.7	1020.0	1021.0	1017.6	
	S. D.	7.578	7.721	6.850	6.009	3.915	3.203	2.757	2.899	3.667	4.950	6.477	6.836	5.912	
	TOTAL OBS	490	451	496	480	489	471	465	465	450	465	450	465	5637	
ALL HOURS	MEAN	1020.9	1019.0	1016.9	1016.0	1015.9	1015.0	1016.3	1015.9	1017.3	1018.8	1019.9	1021.1	1017.7	
	S. D.	7.582	7.901	6.950	6.313	4.255	3.478	2.919	3.100	3.881	5.141	6.630	7.108	6.067	
	TOTAL OBS	3922	3607	3966	3840	3915	3768	3720	3720	3600	3719	3600	3720	45097	